



شركة طرق الرياض للمقاولات
RIYADH ROAD CONTRACTING CO.



شركة
ساني العامرية
SANY Alameriah Co.



مكتب رمك للإستشارات الهندسية
RAMAK ENGINEERING CONSULTANTS OFFICE

FROM : من :
شركة طرق الرياض للمقاولات المحدودة

المطور : شركة ساني العامرية
TECHNICAL SUBMITTAL

To : إلى :
مكتب رمك للاستشارات الهندسية

مشروع تنفيذ اعمال البنية التحتية بمخطط تلال الغروب رقم 1837 / 1 / س - جده
Block (1&3&5&10&11&12&13)

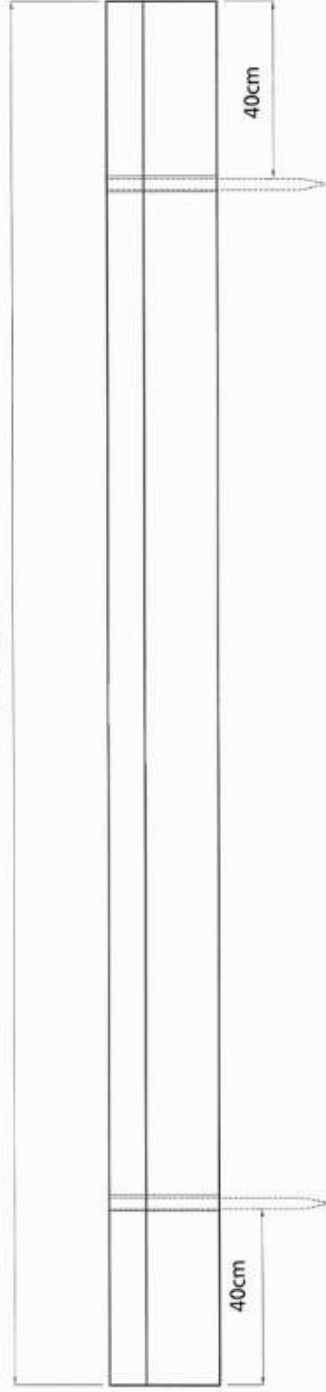
SUBMITTAL NO. :	117	NEW SUBMITTAL ☒	RE SUBMITTAL ☐	SUBMITTAL DATE : - 12/11/2024	
TRANSMITTAL FOR :	METHOD STATEMENT ☐	CALCULATIONS ☐	CATALOGUE ☐	CERTIFICATE ☐	OTHERS ☐
MATERIAL TEST ☒	TEST RESULTS ☐	SAMPLE ☐	DRAWING ☐	STRUCTURAL ☐	SCHEDULE P6 ☐
PROJECT MANAGEMENT ☐	EARTH WORK ☒	SEWAGE ☐	ELECTRICAL ☐	WATER ☐	CIVIL ☒
الموقع	BLOCK-03-10-11-13		ATTACHMENT : ☒		
NO.	NAME AND DESCRIPTION	MANUFACTURER / SUPPLIER		CONTRACT REF.	ACTION CODE
1	اعتماد مصدات مواقف PRECAST WHEEL STOPPER	مكتب سمر الذهبية للخدمات التجارية GOLDEN SARMAD			B
CONTRACTOR'S REMARKS		SIGNATURE التوقيع Contractor PROJECT MANAGER م / محمد غمري			
INFRASTRUCTURE CONSULTANT COMMENTS :		SIGNATURE التوقيع Consultant PROJECT MANAGER م / فهمي عبد الله			
DEVELOPER PROJECT MANAGER COMMENTS :		Developer PROJECT MANAGER م / علاء شلتوت			
		See Attachment ☒			

A = APPROVED B = APPROVED AS NOTED C = APPROVED AS NOTED, RESUBMIT E = DISAPPROVED F = NO ACTION

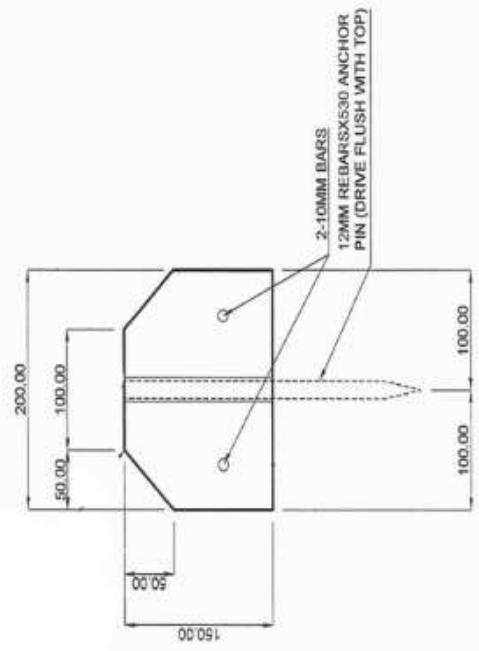
REF. IN :

REF. OUT :

180cm



RETE WHEEL STOP DETAIL



SECTION



**Specification & Mix Design For
Precast Wheel Stopper**

Client	Konoz Mozhela Trading Est.	Date : 09/09/2023
Project	Factory Prodection	C/o

Designation	Precast Wheel Stopper - reinforcement bars 4Ø8 - without stirrups
Dimension	180x20x15 cm
Quality	ASTM C-129
Colour	Natural Cement Grey Colour
Type of Cement	Ordinary Portland Cement (OPC) C - 150
Max.Agg Size	1/2"
W/C Ratio	0.37

One Cubic Meter Contents

Sieve Analysys

Cement	430 Kg	Sieve	Ret.Wt	Ret %	Pass %
Agg.1/2"	264 Kg	1/2"	0	0	100
Agg 3/8"	264 Kg	3/8"	1169	26	74
Agg 3/16"	400 Kg	No:4	2071	46	54
C.Sand	300 kg	No:8	2780	61.8	38.2
Fine Sand	602 kg	No:16	3332	74	26
Water	159 kg	No:30	3639	80.9	19.1
		No:50	3997	88.8	11.2
		No:100	4276	95	5

Wt.Before Wash	4500	Loss	224
Wt.After Wash	4276		



Golden Sarmad

Q.C Department

[Signature]



JEDDAH HOUSING PROJECT/مشروع أعالي جدة

PRE-QUALIFICATION SUBMITTAL

القسم TRADE	ARCHITECTURAL		Submission No : رقم الطلب : NEA-GS-652	Revision No : مراجعة رقم
Specs. Code & Ref / رمز التوصيف و المرجع	B.O.Q. Code Ref / رمز التصنيف في جدول الكميات	Part No / رقم القسم	Date Submitted: 11/APR/2022 تاريخ التقديم:	Date Returned: تاريخ الارجاع:
No. رقم	Description البيان	Details التفاصيل		
	APPROVAL FOR GOLDEN SARMAAD	Submitted for الخاتمة من التقديم		
	SUPPLIER FOR INTERLOCK, PAVEMENT AND TERRAZO TILES	☒ الموافقة ☐ الاستعلام ☐ التوافق ☐ المراجعة 		
		Trade الموضوع		
		☐ Structural ☒ Architectural ☐ Mechanical / Plumbing ☐ Civil defense ☐ Electrical 		
		Attachment المرفقات		
		☒ Certificates ☐ Tech. Brochure ☐ Manufacturer's Data & Specs. ☐ Shop Drawings ☐ Sample ☐ Manual ☐ Data file ☐ As Built Drawings ☐ Warranty ☐ Others (Specify)		

For Contractor خاص بالمقاول	Submitted By / تقديم	Noted by / الملاحظ
Prepared by / إعداد	12-4-2022	
Resident Engineer / مهندس الموقع	Tech. Off. Manager	Project Manager

USE ONLY / خاص بالاستشاري	Received by / المستلم	Name / الاسم	Signature / التوقيع	Date: / / 2022
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Remarks:

لا مانع من تأجيل تسليم SARMAAD لتوريد انشائه، بل إن تزايد (التمهيد) لمشروع اعالي جدة حوله يؤخره، يلزم احضار عينات وعمل الاختبارات على الجسور، 17-4-2022

التوقيع	Resident Engineer	Signature / التوقيع	Approved	مقبول	A
			Approved with comments	مقبول مع وجود ملاحظات	B
			Revise and Resubmit	يصحح ويعد تقديمه	C
			Rejected	مرفوض	D

Approval, corrections or comments made relative to submittals during the review do not relieve the Contractor from compliance with the requirements of the drawings or specifications. This check is only for review of general performance with the design concept of the project and general compliance with the information given in the Contract documents. The Contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of other trades, and performing his work in a safe, timely, and satisfactory manner.

Received / المستلم

OWNER المالك

CONSULTANT الاستشاري

CONTRACTOR المقاول

Contractor's Signature / توقيع المقاول

JHP-QC-IF-005-0

Prequalification Product File



**GOLDEN
SARMAD**



GOLDEN
SARMAD

مقدمة : (من نحن)

مع التوسع العمراني الذي تشهده المملكة العربية السعودية والمشاريع والخطط التنموية التطويرية التي تسعى لتحقيقها المملكة العربية السعودية وفي مقدمتها رؤية ٢٠٣٠ بات واضحاً الحاجة المتزايدة والملحة للمنتجات الاسمنتية والخرسانية. وبسبب الطلب المتزايد على المنتجات الاسمنتية والخرسانية كان حتماً علينا في سرمد الذهبية تلبية احتياجات كافة القطاعات و الفئات في السوق السعودي , وما يميز سرمد الذهبية توفيرها لجميع المنتجات الاسمنتية والخرسانية تحت سقف واحد وبجودة ممتازة وفقاً للمواصفات والمقاييس العالمية والسعودية.

Introduction : (Who we are)

Coming to the Fact of the Urban Growth in The Kingdom of Saudi Arabia, Various Projects & the Economic Development Plans that the Kingdom Aspires to Acquire, & Ahead of all Those Plans is the 2030 Vision. As a Consequence the Need for Cement & Concrete Base Products Have Grown Exponentially.

Golden Sarmad Pursuit is to Provide all These Material With top Quality Upon the International & Saudi Criteria, all Under one Roof, for all Categories & Sectors in the Saudi Market. & That is the Secret of Uniqueness of Golden Sarmad



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SARMAD

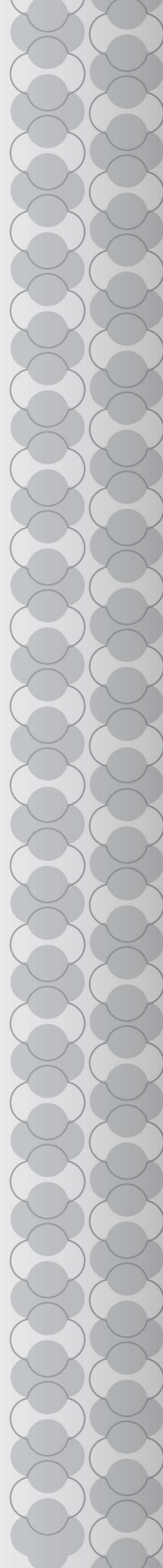


ما يميزنا :

توفير أكبر تشكيلة متنوعة من المنتجات الاسمنتية والخرسانية وخصوصاً الانتزلوك والبردورة حيث ينصب اهتمامنا في توريد الانتزلوك , البردورة , البلاط الاسمنتي , البلوك , المنتجات الخرسانية الخاصة.

Why Golden Sarmad:

We Provide a Vast & Diverse Cement & Concrete Base Products, Especially for the Interlock Tiles & the Curbstone. Since we Take High Interest in Providing the Interlock Tiles, Curbstone, Cement Tiles Block & Special Concrete Base Products





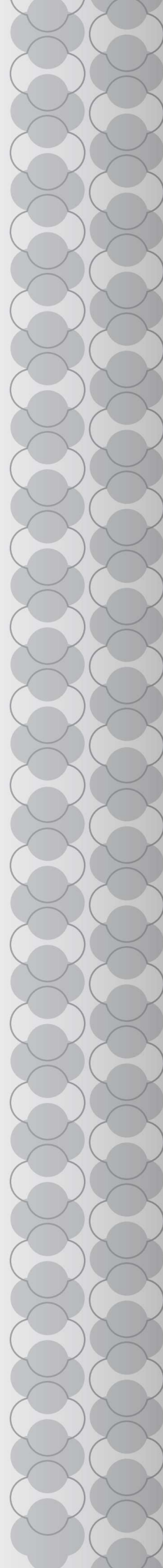
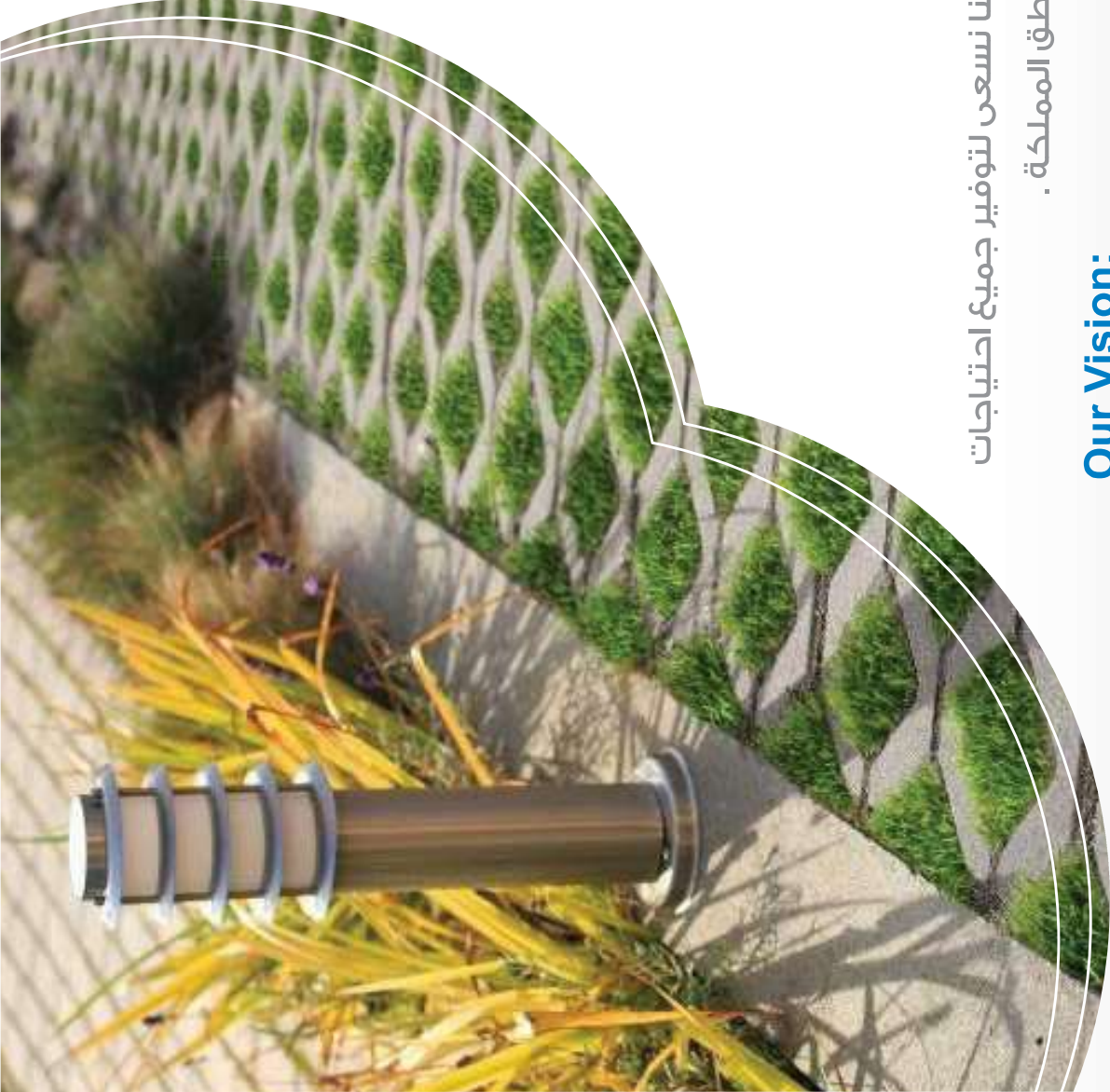
GOLDEN
SARMAD

رؤيتنا :

نطمح أن تكون سرمد الذهبية هي الخيار الأمثل لعملائها , حيث أننا نسعى لتوفير جميع احتياجات بناء منازلهم تحت سقف واحد وتوفير خدمة التوصيل لجميع مناطق المملكة .

Our Vision:

We Admire for Golden Sarmad to Become is the Best Choice for its Clients, we Aspire to Provide all Materials you Need to Build Your Home Plus Delivery Services to all Regions in the Kingdom.





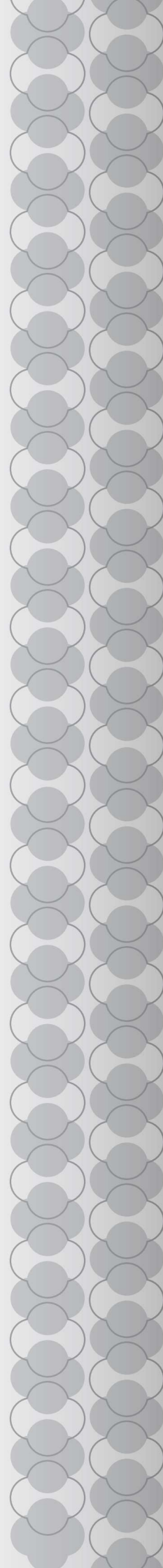
GOLDEN
SARMAD

الرسالة :

توريد المنتجات الاسمنتية والخرسانية وفقاً للمعايير والمواصفات العالمية وبجودة عالية وسعر منافس.

Message:

Is to Provide all Cement & Concrete Base Products According to the Highest International & Local Standards, and to Provide an Elite Services for our Clients.





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SARMAD

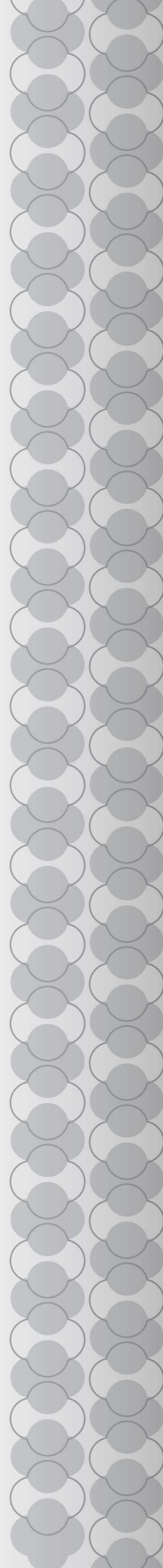


القيم :

- المساهمة في خدمة قطاعات الدولة لتحقيق الخطط التطويرية.
- المساهمة في جمالية المدن وتحسين المؤثرات البصرية لتكوين صورة حضارية .

Morals :

- Participate in Serving all Government Sectors to Help Achieve all the Plans.
- Be Part of the 2023 Vision by Serving the Development Plan & Providing our Services to all the Sectors.
- Be Part of the Process of Beautifying our Cities & Enhance our Environment to Capture a Civilized Image.



 sarmad.ksa  056 085 4829
 @sarmad_ksa_  058 067 8936
 sarmad.ksa  012 619 0369
www.sarmad-ksa.com



GOLDEN
SARMAD

الاوراق الرسمية



مكتب سرمد الذهبية للخدمات التجارية



السجل التجاري: 4030602983

رمزك التجاري QR Code

من خلاله يمكنك التحقق المباشر من معلومات:

- السجل التجاري
- رخصة البلدية
- شهادة السعودة
- برنامج نطاقات
- شهادة الزكاة
- الغرفة التجارية





شهادة تسجيل مؤسسية

الرقم: ٤٠٣٠٦٠٢٩٨٣
التاريخ: ١٤٣٩/٠٤/١٩ هـ

الرقم الموحد للمنشأة: ٧٠٠٢١٥٣٠٦٧

الإسم التجاري للمؤسسة: مكتب سرمد الذهبية للخدمات التجارية

مركزها الرئيسي: ٢١١٩، بشر أبوراقع، بنى مالك، ٨٣٤٧

ص.ب.: _____ الرمز البريدي: ٢٣٢٣٢ هاتف: ٦٦٧٢٨٠٠

اسم التاجر: ابراهيم عمر عبود بالخير الجنسية: سعودي تاريخ الميلاد: ١٤١٠ هـ

رقم السجل المدني - الإقامة: ١٠٦٣٧٦١٥٥٣ تاريخه: ١٤٣٨/٠٨/٠٥ هـ مصدره: أحوال القنفذة

رقم الحفيظة - الجواز: _____ تاريخه: _____ مصدره: _____

النشاط: للاطلاع على بيانات الأنشطة الرجاء مسح الرمز التجاري

رأس المال: ١٠٠٠٠ عشرة آلاف ريال فقط لا غير

اسم المدير أو الوكيل المفوض: ابراهيم عمر عبود بالخير

الجنسية: سعودي تاريخ الميلاد: ١٤١٠ هـ

رقم السجل المدني - الإقامة: ١٠٦٣٧٦١٥٥٣ تاريخه: ١٤٣٨/٠٨/٠٥ هـ مصدره: أحوال القنفذة

سلطات المدير

يشهد مكتب السجل التجاري بمدينة جدة

بأنه تم تسجيل هذه المؤسسة بسجل مدينة جدة

وتنتهي صلاحية الشهادة في ١٤٤٥/٠٤/١١ هـ بموجب الإيصال رقم: ٤٥٣١٤٤٧ و تاريخ: ١٤٤١/٠٤/١٣ هـ

مدير السجل التجاري: نايف صالح الطاسان

التوقيع:





السادة/ مكتب سرمد الذهبية للخدمات التجارية

نهنئكم بدخول عالم الأعمال التجارية وإصدار سجلكم التجاري، ونتطلع أن يساهم هذا السجل في تحقيق تطلعاتكم، وأن يكتب الله لكم التوفيق والنجاح في عملكم التجاري وأن تكون شريكاً في تعزيز اقتصاد المملكة العربية السعودية.

يسرنا إبلاغكم بأن رقم منشآتكم الموحد هو ٧٠٠٢١٥٣٠٦٧ وقد تم ربطه بالخدمات الحكومية التي ستحتاجها مستقبلاً. وهي على النحو التالي:

الرقم:	رقم سجلكم التجاري للمنشأة	 وزارة التجارة Ministry of Commerce
٤٠٣٠٦٠٢٩٨٣		
٩٠١٦٦٥٩٥٢	رقم منشآتكم لدى وزارة الموارد البشرية والتنمية الاجتماعية	 وزارة الموارد البشرية والتنمية الاجتماعية Ministry of Human Resources and Social Development
٣١٣٠٠٩٠٩٦١١	تم تسجيل منشآتكم مجاناً لمدة سنة في خدمة واصل التجاري	 البريد السعودي Saudi Post
٣١٠١٦٨٢٢٢٢٤	رقم منشآتكم لدى هيئة الزكاة والضريبة والجمارك	 هيئة الزكاة والضريبة والجمارك Zakat, Tax and Customs Authority
تعذر الإنشاء التلقائي للحساب الرجاء التوجه إلى موقع الجهة لإنشاء الحساب	رقم منشآتكم لدى المؤسسة العامة للتأمينات الاجتماعية	 المؤسسة العامة للتأمينات الاجتماعية General Authority for Social Insurance
٢٨١٩٩٥	رقم منشآتكم لدى الغرفة التجارية.	 مجلس الغرف السعودية Council of Saudi Chambers
لا يوجد	رقم رخصة "بلدية" فورية (في حال اختياركم)	 بلدي balady



يُتيح تطبيق "نوافذ منشآت" العديد من الخدمات الممكنة لك في عالم الأعمال و منها الحصول على الإرشاد و الاستشارات ، تطبيق "نوافذ منشآت" بوابة دخولك إلى عالم الأعمال
<https://www.monshaat.gov.sa/nawafth>

منشآت
monsha'at
الهيئة العامة للمنشآت الصغيرة والمتوسطة
Small & Medium Enterprises General Authority



ويمكنك فتح حساب بنكي دون الحاجة إلى أي أختام لمنشأتك

كما جمعنا لك كافة الانظمة واللوائح بلغة بسيطة في دليل التاجر لتمارس عملك التجاري بسهولة

mci.gov.sa/trader/guide



تاريخ الإصدار: 2022/01/04

الرقم المميز: 3102000551



الهيئة العامة للزكاة والدخل
General Authority of Zakat & Tax



شهادة تسجيل في ضريبة القيمة المضافة VAT Registration Certificate

تشهد الهيئة العامة للزكاة والدخل بأن المكلف أدناه مسجل في ضريبة القيمة المضافة
بتاريخ 2022/01/04

Hereby, The General Authority of Zakat & Tax (GAZT) certifies that the taxpayer below is
VAT registered on 04/01/2022

اسم المكلف:	مكتب سرمد الذهبية للخدمات التجارية	Taxpayer Name:
رقم التسجيل الضريبي:	310200055100003	VAT Registration Number:
تاريخ نفاذ التسجيل:	2022/01/01	Effective Registration Date:
عنوان المكلف:	جدة، حي بني مال، السبعين، 23232	Taxpayer Address:



كمكلف مسجل في ضريبة القيمة المضافة، لا يجوز لك تحصيل ضريبة القيمة المضافة من عملائك قبل تاريخ
نفاذ التسجيل بالضريبة. في حال تبين غير ذلك، ستقوم الهيئة العامة للزكاة والدخل بتنفيذ الغرامات المستحقة

هذه الوثيقة مرسلة من النظام الآلي ولا تحتاج إلى توقيع
- الهيئة العامة للزكاة والدخل -



تاريخ الإصدار: 2022/01/04
الرقم المميز: 3102000551



الهيئة العامة للزكاة والدخل
General Authority of Zakat & Tax



اسم المكلّف: مكتب سرمد الذهبية للخدمات التجارية
Taxpayer Name: 4030602983
رقم السجل/الرخصة/العقد: 4030602983
CR / License / Contract No.: ربع سنوي-Quarterly
Tax Period: الفتره الضريبية:
تاريخ استحقاق أول إقرار ضريبي: 2022/04/30
First Filing due date:

قائمة فروع المكلّف List of Taxpayer Branches

المدينة City	اسم الفرع Branch Name	رقم الرخصة License No.	رقم السجل التجاري CR No.
القنفذة	محل إبراهيم عمر عبود بالخير الغذائية		4603146791



كمكلف مسجل في ضريبة القيمة المضافة، لا يجوز لك تحصيل ضريبة القيمة المضافة من عملائك قبل تاريخ
نفاذ التسجيل بالضريبة. في حال تبين غير ذلك، ستقوم الهيئة العامة للزكاة والدخل بتنفيذ الغرامات المستحقة

هذه الوثيقة مرسلة من النظام الآلي ولا تحتاج إلى توقيع
- الهيئة العامة للزكاة والدخل -



رقم الشهادة: ١٠٣١١٧٧٥٢١
التاريخ: ١٤٤٣/٠٥/١٨ هـ
الرقم المميز: ٣١٠٦٨٢٢٢٤



الهيئة العامة للزكاة والدخل
General Authority of Zakat & Tax

المملكة العربية السعودية
الهيئة العامة للزكاة والدخل
General Authority of Zakat & Tax

شهادة CERTIFICATE

تشهد الهيئة العامة للزكاة والدخل بأن المكلف / مكتب سرمد الذهبية للخدمات التجارية
سجل مدني رقم ١٠٨٢٦٣٧٢٨٩ وسجل تجاري رقم ٤٠٣٠٦٠٢٩٨٣
قدم إقراره عن الفترة المنتهية في ١٤٤٣/٠٤/١٨ هـ

وقد منح هذه الشهادة لتمكينه من إنهاء جميع معاملاته بما في ذلك صرف مستحقاته
النهائية عن العقود.

يسري مفعول هذه الشهادة حتى تاريخ ١٤٤٤/٠٨/١٨ هـ الموافق ٢٠٢٣/٠٣/١٠ م.
(الثامن عشر من شعبان ألف و أربعمئة و أربعة و أربعون هجري)



الختم الرسمي

هذه الوثيقة مستخرجة من النظام الآلي ولا تحتاج إلى توقيع
لا يعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة www.gazt.gov.sa

شهادة سعودة

رقم الشهادة 831920-13328023

تاريخ الإصدار 2023-07-22

تاريخ الانتهاء 2023-10-20

رقم المنشأة 9-2071261

اسم المنشأة مكتب سرمد الذهبية للخدمات التجارية

حالة الشهادة نشط

رقم السجل التجاري 4030602983

الرقم الوطني الموحد 7002153067



تشهد وزارة الموارد البشرية والتنمية الاجتماعية بأن المنشأة المذكورة أعلاه حققت نسب التوطين المطلوبة منها

وتم منحها هذه الشهادة حسب طلبها

الشهادة معتمدة من صاحب الصلاحية ولا تحتاج إلى توقيع أو ختم



GOLDEN
SARMAD

الاختبارات



TEST REPORT
CONCRETE INTERLOCKING PAVING UNITS

Project Name	N.P	Report No	1-100
Sample ID	Intelock Holland (Gray)	Client File No	N.P
Nominal Size	100 x 100 x 60 mm	Sample Recived	N.P
Test Method	ASTM C140	Date Sample Recived	13/09/17
Manufactured	N.P	Date of Test Started	16/09/17
Report Date	17/09/17	Test performed by	N.P

RESULTS

sample No.	Nominal Dimension,(mm)			Measured specimen size ,mm (Average)		
	Length	Width	Height	Length	Width	Height
1	100	100	60	99	99	63
2	100	100	60	99	99	62
3	100	100	60	99	99	62

Sample No	Absorption, (%)	
	individual	Average
1	4.6	4.4
2	4.3	
3	4.5	

Density ,(kg/m3)	
individual	Average
2201	2232
2244	
2251	

Sample No.	Compressive Strength ,Mpa (Average Net Area)	Average
1	60.4	60.4
2	59.7	
3	61.1	

Remaks : ASTM C 936 samples shall be not less 55 Mpa with no individual unit less than 50 Mpa .

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This Test was under Supervision of Quality Control Department





TEST REPORT
CONCRETE INTERLOCKING PAVING UNITS

Client Name	N.P	Client File No	N.P
Project Name	N.P	Report No	1-102
Sample ID	Intelock Holland (Dark Gray)	Sampling Date	N.P
Nominal Size	200 x 100 x 80 mm	Sample Recived	N.P
Test Method	ASTM C140	Date Sample Recived	13/09/17
Manufactured	N.P	Date of Test Started	16/09/17
Report Date	17/09/17	Test performed by	N.P

RESULTS

sample No.	Nominal Dimension,(mm)			Measured specimen size ,mm (Average)		
	Length	Width	Height	Length	Width	Height
1	200	100	80	199	99	80
2	200	100	80	199	98	81
3	200	100	80	199	99	81

Sample No	Absorption, (%)	
	individual	Average
1	4.5	4.6
2	4.5	
3	4.7	

Density ,(kg/m3)	
individual	Average
2232	2241
2243	
2247	

Sample No.	Compressive Strength ,Mpa	Average
	(Average Net Area)	
1	56.5	58.6
2	60.1	
3	59.3	

Remaks : ASTM C 936 samples shall be not less 55 Mpa with no individual unit less than 50 Mpa .

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





TEST REPORT
CONCRETE INTERLOCKING PAVING UNITS

Client Name	N.P	Client File No	N.P
Project Name	N.P	Report No	1-103
Sample ID	Intelock Holland (Gray)	Sampling Date	N.P
Nominal Size	200 x 100 x 60 mm	Sample Recived	N.P
Test Method	ASTM C140	Date Sample Recived	13/09/17
Manufactured	N.P	Date of Test Started	16/09/17
Report Date	17/09/17	Test performed by	N.P

RESULTS

sample No.	Nominal Dimension,(mm)			Measured specimen size ,mm (Average)		
	Length	Width	Height	Length	Width	Height
1	200	100	60	200	99	58
2	200	100	60	200	99	59
3	200	100	60	199	99	59

Sample No	Absorption, (%)	
	individual	Average
1	4.3	4.5
2	4.5	
3	4.8	

Density ,(kg/m3)	
individual	Average
2279	2285
2294	
2283	

Sample No.	Compressive Strength ,Mpa	Average
	(Average Net Area)	
1	64.8	63.6
2	67	
3	59	

Remaks : ASTM C 936 samples shall be not less 55 Mpa with no individual unit less than 50 Mpa .

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





TEST REPORT
CONCRETE INTERLOCKING PAVING UNITS

Client Name	N.P	Client File No	N.P
Project Name	N.P	Report No	1-104
Sample ID	Intelock Holland (Dark Gray)	Sampling Date	N.P
Nominal Size	200 x 100 x 60 mm	Sample Recived	N.P
Test Method	ASTM C140	Date Sample Recived	13/09/17
Manufactured	N.P	Date of Test Started	16/09/17
Report Date	17/09/17	Test performed by	N.P

RESULTS

sample No.	Nominal Dimension,(mm)			Measured specimen size ,mm (Average)		
	Length	Width	Height	Length	Width	Height
1	200	100	60	199	99	59
2	200	100	60	199	99	60
3	200	100	60	199	99	60

Sample No	Absorption, (%)	
	individual	Average
1	3.8	3.6
2	3.5	
3	3.6	

Density ,(kg/m3)	
individual	Average
2289	2281
2275	
2280	

Sample No.	Compressive Strength ,Mpa	Average
	(Average Net Area)	
1	74.8	71.7
2	69.8	
3	70.5	

Remaks : ASTM C 936 samples shall be not less 55 Mpa with no individual unit less than 50 Mpa .

Reviewed by	Eng. Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





TEST REPORT
CONCRETE INTERLOCKING PAVING UNITS

Client Name	N.P	Client File No	N.P
Project Name	N.P	Report No	1-105
Sample ID	Intelock Holland (Dark Red)	Sampling Date	N.P
Nominal Size	200 x 100 x 80 mm	Sample Recived	N.P
Test Method	ASTM C140	Date Sample Recived	13/09/17
Manufactured	N.P	Date of Test Started	16/09/17
Report Date	17/09/17	Test performed by	N.P

RESULTS

sample No.	Nominal Dimension,(mm)			Measured specimen size ,mm (Average)		
	Length	Width	Height	Length	Width	Height
1	200	100	80	199	99	81
2	200	100	80	199	99	81
3	200	100	80	199	99	82

Sample No	Absorption, (%)	
	individual	Average
1	4.1	4.5
2	4.5	
3	4.9	

Density ,(kg/m3)	
individual	Average
2224	2240
2258	
2237	

Sample No.	Compressive Strength ,Mpa	Average
	(Average Net Area)	
1	57.5	57.5
2	58.3	
3	56.9	

Remaks : ASTM C 936 samples shall be not less 55 Mpa with no individual unit less than 50 Mpa .

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





ABRASION TEST (SASO 1247)

Client	N.P	Report No.	1-106
Sample Description	Interlock Holland (Grey)	Date of Test Started	17/10/17
Nominal size	100 X 100 X 60 mm	Test performed by	N.P

Sample No	Specimen Size (cm)	Thickness Before Test (mm)	Thickness After Test (mm)	Abrasion Value (mm)
1	7 X 7	60.2	57.8	2.4
2	7 X 7	60.5	58.4	2.1
3	7 X 7	60.1	57.6	2.5
Average				2.3
Specification Limit (SASO1246)				Ind.Max.3.6mm Ave.Max.3mm

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





ABRASION TEST (SASO 1247)

Client	N.P	Report No.	1-107
Sample Description	Interlock Holland (Dark Grey)	Date of Test Started	17/10/17
Nominal size	100 X 100 X 60 mm	Test performed by	N.P

Sample No	Specimen Size (cm)	Thickness Before Test (mm)	Thickness After Test (mm)	Abrasion Value (mm)
1	7 X 7	60.7	58.8	1.9
2	7 X 7	61.1	59	2.1
3	7 X 7	60.8	58.5	2.3
Average				2.1
Specification Limit (SASO1246)				Ind.Max.3.6mm Ave.Max.3mm

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





ABRASION TEST (SASO 1247)

Client	N.P	Report No.	1-108
Sample Description	Interlock (Dark Grey)	Date of Test Started	17/10/17
Nominal size	200 X 100 X 80 mm	Test performed by	N.P

Sample No	Specimen Size (cm)	Thickness Before Test (mm)	Thickness After Test (mm)	Abrasion Value (mm)
1	7 X 7	79.9	77.1	2.8
2	7 X 7	79.8	77.2	2.6
3	7 X 7	79.6	76.7	2.9
Average				2.8
Specification Limit (SASO1246)				Ind.Max.3.6mm Ave.Max.3mm

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed AL-qathmi		

This test was under supervision of Quality control Department





ABRASION TEST (SASO 1247)

Client	N.P	Report No.	1-109
Sample Description	Interlock Holland (Grey)	Date of Test Started	17/10/17
Nominal size	200 X 100 X 60 mm	Test performed by	N.P

Sample No	Specimen Size (cm)	Thickness Before Test (mm)	Thickness After Test (mm)	Abrasion Value (mm)
1	7 X 7	62.5	60.7	1.8
2	7 X 7	60.7	58.8	1.9
3	7 X 7	62.1	59.9	2.2
Average				2
Specification Limit (SASO1246)				Ind.Max.3.6mm Ave.Max.3mm

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





ABRASION TEST (SASO 1247)

Client	N.P	Report No.	1-110
Sample Description	Interlock (Dark Grey)	Date of Test Started	17/10/17
Nominal size	200 X 100 X 60 mm	Test performed by	N.P

Sample No	Specimen Size (cm)	Thickness Before Test (mm)	Thickness After Test (mm)	Abrasion Value (mm)
1	7 X 7	59.4	56.8	2.6
2	7 X 7	59.7	57	2.7
3	7 X 7	60	57.5	2.5
Average				2.6
Specification Limit (SASO1246)				Ind.Max.3.6mm Ave.Max.3mm

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





ABRASION TEST (SASO 1247)

Client	N.P	Report No.	1-111
Sample Description	Interlock Holland (White)	Date of Test Started	17/10/17
Nominal size	200 X 100 X 80 mm	Test performed by	N.P

Sample No	Specimen Size (cm)	Thickness Before Test (mm)	Thickness After Test (mm)	Abrasion Value (mm)
1	7 X 7	78.7	76.7	2
2	7 X 7	79.1	77.4	1.7
3	7 X 7	78.5	76.4	2.1
Average				1.9
Specification Limit (SASO1246)				Ind.Max.3.6mm Ave.Max.3mm

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





TEST REPORT

COMPRESSIVE STRENGTH & WATER ABSORPTION CONCRETE MASONRY UNITS AND RELATED UNITS

Client Name	N.P	Client File No	N.P
Project Name	N.P	Report No	1-113
Sample ID	Curbston	Sampling Date	N.P
Nominal Size	500 x 150 x 300 mm	Sample Recived	N.P
Test Method	ASTM C 140	Date Sample Recived	14/10/17
Manufactured	N.P	Date of Test Started	15/10/17
Report Date	18/10/17	Date of Test Finished	17/10/17

RESULTS

Sample No.	Specimen Size (mm)	Wt. of Sample(Kg/m3)	Density (Kg/m3)	Load (KN)	Compressive Strength(N/mm2)
1	150 X150 X 150	7495	2221	772	34.3
2	150 X150 X 150	7795	2310	794	35.3
3	150 X150 X 150	7585	2247	857	38.1
		AVERAGE		807.7	35.9

Sample No.	Specimen Size (mm)	Dry Weight Of Sample (gm)	Saturated Surface Dry Weight (gm)	Water Absorption(%)
1	150 X150 X 150	7737	7953	2.8
2	150 X150 X 150	7644	7827	2.4
3	150 X150 X 150	7557	7761	2.7
		AVERAGE		2.6

Reviewed by	Eng.Abdullah dini		Report received by (Name &Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

COMPRESSIVE STRENGTH & WATER ABSORPTION CONCRETE MASONRY UNITS AND RELATED UNITS

Client Name	N.P	Client File No	N.P
Project Name	N.P	Report No	1-114
Sample ID	Curbston	Sampling Date	N.P
Nominal Size	500 x 150 x 250 mm	Sample Recived	N.P
Test Method	ASTM C 140	Date Sample Recived	14/10/17
Manufactured		Date of Test Started	15/10/17
Report Date	18/10/17	Date of Test Finished	17/10/17

RESULTS

Sample No.	Specimen Size (mm)	Wt. of Sample(Kg/m3)	Density (Kg/m3)	Load (KN)	Compressive Strength(N/mm2)
1	150 X150 X 150	7305	7305	801	35.6
2	150 X150 X 150	7401	7401	763	33.9
3	150 X150 X 150	7355	7355	837	37.2
		AVERAGE		800.3	35.6

Sample No.	Specimen Size (mm)	Dry Weight Of Sample (gm)	Saturated Surface Dry Weight (gm)	Water Absorption(%)
1	150 X150 X 150	7428	7643	2.9
2	150 X150 X 150	7356	7577	3
3	150 X150 X 150	7419	7604	2.5
		AVERAGE		2.8

Reviewed by	Eng.Abdullah dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

COMPRESSIVE STRENGTH & WATER ABSORPTION CONCRETE MASONRY UNITS AND RELATED UNITS

Client Name	N.P	Client File No	N.P
Project Name	N.P	Report No	1-115
Sample ID	Curbston	Sampling Date	N.P
Nominal Size	350 x 150 / 100 X 300 mm	Sample Recived	N.P
Test Method	ASTM C 140	Date Sample Recived	14/10/17
Manufactured		Date of Test Started	15/10/17
Report Date	18/10/17	Date of Test Finished	17/10/17

RESULTS

Sample No.	Specimen Size (mm)	Wt. of Sample(Kg/m3)	Density (Kg/m3)	Load (KN)	Compressive Strength(N/mm2)
1	150 X150 X 150	7460	7460	774	34.4
2	150 X150 X 150	7539	7539	740	32.9
3	150 X150 X 150	7481	7481	826	36.7
		AVERAGE		780	34.7

Sample No.	Specimen Size (mm)	Dry Weight Of Sample (gm)	Saturated Surface Dry Weight (gm)	Water Absorption(%)
1	150 X150 X 150	7267	7449	2.5
2	150 X150 X 150	7395	7609	2.9
3	150 X150 X 150	7354	7553	2.7
		AVERAGE		2.7

Reviewed by	Eng.Abdullah dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





TEST REPORT

COMPRESSIVE STRENGTH & WATER ABSORPTION CONCRETE MASONRY UNITS AND RELATED UNITS

Client Name	N.P	Client File No	N.P
Project Name	N.P	Report No	1-116
Sample ID	Curbston	Sampling Date	N.P
Nominal Size	500 X 100 X 300 mm	Sample Recived	N.P
Test Method	ASTM C 140	Date Sample Recived	14/10/17
Manufactured	N.P	Date of Test Started	15/10/17
Report Date	18/10/17	Date of Test Finished	17/10/17

RESULTS

Sample No.	Specimen Size (mm)	Wt. of Sample(Kg/m3)	Density (Kg/m3)	Load (KN)	Compressive Strength(N/mm2)
1	150 X150 X 150	2409	2409	342	34.2
2	150 X150 X 150	2395	2395	319	31.9
3	150 X150 X 150	2389	2389	378	37.8
AVERAGE				346.3	34.6

Sample No.	Specimen Size (mm)	Dry Weight Of Sample (gm)	Saturated Surface Dry Weight (gm)	Water Absorption(%)
1	150 X150 X 150	2348	2414	2.8
2	150 X150 X 150	2379	2438	2.5
3	150 X150 X 150	2327	2394	2.9
AVERAGE				2.7

Reviewed by	Eng.Abdullah dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

CONCRETE MASONRY UNITS

Sample Description	Hollow Block with 2 Cavity, Open Bottom
Nominal Size (L x W x H)	400 X 150 X 200 mm
Classification	Normal Weight
Test Method	ASTM C140/ C140M -18a
Date of Test	24/06/19
Report No	2-119

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits	
							ASTM C90-14	ASTM C129-14a
			Normal Weight Class				Load Bearing	Non-Load Bearing
			1	2	3	Ave.		
Face Shell Thickness		mm	40	40	40	40	32 Min	13 Min
Web		mm	40	40	40	40	19 Min	-
Weight as Received		g	18230	17880	17942	18017		
Densy	Oven Dry	Kg/m3	2228	2231	2243	2234	> 2000	> 2000
	As Received		2252	2239	2251	2247		
Water Absorption		%	4.5	4.5	4.4	4.5	-	-
		Kg/m3	100	101	98	100	208 Max	-
Compressive Strength	Net	N/mm2	13.8	17.7	18.5	16.7	13.8	4.14

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

CONCRETE MASONRY UNITS

Sample Description	Hollow Block with 2 Cavity, Open Bottom
Nominal Size (L x W x H)	400 X 200 X 200 mm
Classification	Normal Weight
Test Method	ASTM C140/ C140M -18a
Date of Test	24/06/19
Report No	2-120

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits	
							ASTM C90-14	ASTM C129-14a
			Normal Weight Class				Load Bearing	Non-Load Bearing
			1	2	3	Ave.		
Face Shell Thickness		mm	40	40	40	40	32 Min	13 Min
Web		mm	42	41	42	41.7	19 Min	-
Weight as Received		g	20758	20999	20197	20651		
Densy	Oven Dry	Kg/m3	2247	2254	2196	2232	> 2000	> 2000
	As Received		2268	2262	2214	2248		
Water Absorption		%	4.4	4.2	5.1	4.6	-	-
		Kg/m3	99	96	113	103	208 Max	-
Compressive Strength	Net	N/mm2	16.3	17.4	16.3	16.7	13.8 Min	4.14 Min

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

Fire Resistance

Sample Description
Nominal Size (L x W x H)
Test Method
Date of Test
Report No

Solid Block
400 X100 X 200 mm
ACI 216
13/03/19
2-121

Type	Sample No.	Dimensions (mm)					Fire Resistance (Hours)	
		Length	width	height	Face	Web		
400 x 100 x 200	1	400	100	200	-	-	-	1.871
	2	400	100	200	-	-	-	1.871
	3	400	100	200	-	-	-	1.871



Reviewed by	Eng. Abdullah Dini		
Supervisor	Eng. Mohammed Al-Qithmi		



TEST REPORT

CONCRETE MASONRY UNITS

Sample Description	Hollow Block with 3 Cavity, Closed Bottom
Nominal Size (L x W x H)	400 X 100 X 200 mm
Classification	Normal Weight
Test Method	ASTM C140/ C140M -18a
Date of Test	24/06/19
Report No	2-122

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits	
							ASTM C90-14	ASTM C129-14a
			Normal Weight Class				Load Bearing	Non-Load Bearing
			1	2	3	Ave.		
Face Shell Thickness		mm	30	30	30	30	32 Min	13 Min
Web		mm	30	30	30	30	19 Min	-
Weight as Received		g	13914	13767	14022	13901		
Densy	Oven Dry	Kg/m3	2263	2277	2270	2270	> 2000	> 2000
	As Received		2279	2289	2287	2285		
Water Absorption		%	4.3	4.1	4.2	42	-	-
		Kg/m3	98	94	95	96	208 Max	-
Compressive Strength	Net	N/mm2	20.3	13.9	13	15.7	13.8 Min	4.14 Min

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

CONCRETE MASONRY UNITS

Sample Description Hollow Block with 2 Cavity, Open Bottom
Nominal Size (L x W x H) 400 X 200 X 200 mm
Classification Normal Weight
Test Method ASTM C140/ C140M -18a
Date of Test 24/06/19
Report No 2-123

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits	
							ASTM C90-14	ASTM C129-14a
			Normal Weight Class				Load Bearing	Non-Load Bearing
			1	2	3	Ave.		
Face Shell Thickness		mm	40	40	40	40	32 Min	13 Min
Web		mm	42	41	42	41.7	19 Min	-
Weight as Received		g	20758	20999	20197	20651		
Densty	Oven Dry	Kg/m3	2247	2254	2196	2232	> 2000	> 2000
	As Received		2268	2262	2214	2248		
Water Absorption		%	4.4	4.2	5.1	4.6	-	-
		Kg/m3	99	96	113	103	208 Max	-
Compressive Strength	Net	N/mm2	16.3	17.4	16.3	16.7	13.8 Min	4.14 Min

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

REPORT ON TESTING OF COMPRESSIVE STRENGTH OF BEARING BLOCK SPECIMENS

TEST METHOD	ASTM C140
SAMPLE DESCRIPTION	HOLLOW BLOCK TWO VOIDS 400 X 200
DATE TESTED	09/01/19
AIR TEMPERATURE	24 °C
REPORT NO	2-125

SPECIMEN MEASUREMENTS

SAMPLE NO.	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)	WEIGHT (mm)	HOLLOW AREA(mm) ²	GROSS CROSS-SECTIONAL AREA (mm) ²	NET CROSS-SECTIONAL AREA (mm) ²
1	200	400	200	20.86	32292	80000	47708
2	200	400	200	21.33	31956	80000	48044
3	200	400	200	21.46	32105	80000	47895

COMPRESSIVE STRENGTH RESULT OF HOLLOW BLOCKS (ASTM C140)

SAMPLE NO.	DATE TESTED	DENSTY (Kg/M3)	LOAD (KN)	COMPRESSIVE (NET AREA) STRENGTH (Mpa)
1	09/01/19	2186	572.1	12
2	09/01/19	2219	729.5	15.2
3	09/01/19	2240	694.3	14.5

AVERAGE OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa)	13.9
SPECIFICATOON FOR AVERAGE OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa) (ASTMC90)	6
SPECIFICATOON FOR INDIVIDUAL OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa) (ASTMC90)	4.8



Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department



TEST REPORT

REPORT ON TESTING OF COMPRESSIVE STRENGTH OF BEARING BLOCK SPECIMENS

TEST METHOD ASTM C140
SAMPLE DESCRIPTION SOLID BLOCK 400 X 200
DATE TESTED 09/01/19
AIR TEMPERATURE 24 °C
REPORT NO 2-126

SPECIMEN MEASUREMENTS

SAMPLE NO.	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)	WEIGHT (mm)	HOLLOW AREA(mm)2	GROSS CROSS-SECTIONAL AREA (mm)2	NET CROSS-SECTIONAL AREA (mm)2
1	200	400	200	32.45	1074	80000	78926
2	200	400	200	32.75	1072	80000	78928
3	200	400	200	32.70	1073	80000	78927

COMPRESSIVE STRENGTH RESULT OF HOLLOW BLOCKS (ASTM C140)

SAMPLE NO.	DATE TESTED	DENSTY (Kg/M3)	LOAD (KN)	COMPRESSIVE (NET AREA) STRENGTH (Mpa)
1	09/01/19	2056	800.3	10.1
2	09/01/19	2075	835.7	10.6
3	09/01/19	2072	813.2	10.3

AVERAGE OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa)	10.3
SPECIFICATOON FOR AVERAGE OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa) (ASTMC90)	6.9
SPECIFICATOON FOR INDIVIDUAL OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa) (ASTMC90)	5.5



Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department



TEST REPORT

REPORT ON TESTING OF COMPRESSIVE STRENGTH OF BEARING BLOCK SPECIMENS

TEST METHOD ASTM C140
SAMPLE DESCRIPTION HOLLOW BLOCK TWO VOIDS 400 X 150
DATE TESTED 09/01/19
AIR TEMPERATURE 24 °C
REPORT NO 2-127

SPECIMEN MEASUREMENTS

SAMPLE NO.	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)	WEIGHT (mm)	HOLLOW AREA(mm)2	GROSS CROSS-SECTIONAL AREA (mm)2	NET CROSS-SECTIONAL AREA (mm)2
1	200	400	200	17.37	19040	60000	40960
2	200	400	200	17.82	18995	60000	41005
3	200	400	200	17.29	19458	60000	40542

COMPRESSIVE STRENGTH RESULT OF HOLLOW BLOCKS (ASTM C140)

SAMPLE NO.	DATE TESTED	DENSTY (Kg/M3)	LOAD (KN)	COMPRESSIVE (NET AREA) STRENGTH (Mpa)
1	09/01/19	2120	424.6	10.4
2	09/01/19	2173	404.7	9.9
3	09/01/19	2132	322.5	8

AVERAGE OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa)	9.4
SPECIFICATOON FOR AVERAGE OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa) (ASTMC90)	6.0
SPECIFICATOON FOR INDIVIDUAL OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa) (ASTMC90)	4.8



Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department



TEST REPORT

REPORT ON TESTING OF COMPRESSIVE STRENGTH OF BEARING BLOCK SPECIMENS

TEST METHOD: ASTM C140
SAMPLE DESCRIPTION: HOLLOW BLOCK TWO VOIDS 400 X 100
DATE TESTED: 09/01/19
AIR TEMPERATURE: 24 °C
REPORT NO: 2-128

SPECIMEN MEASUREMENTS

SAMPLE NO.	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)	WEIGHT (mm)	HOLLOW AREA(mm)2	GROSS CROSS-SECTIONAL AREA (mm)2	NET CROSS-SECTIONAL AREA (mm)2
1	100	400	200	12.71	10362	40000	29638
2	100	400	200	12.61	10604	40000	29396
3	100	400	200	12.83	11464	40000	28536

COMPRESSIVE STRENGTH RESULT OF HOLLOW BLOCKS (ASTM C140)

SAMPLE NO.	DATE TESTED	DENSTY (Kg/M3)	LOAD (KN)	COMPRESSIVE (NET AREA) STRENGTH (Mpa)
1	09/01/19	2143	246.1	8.3
2	09/01/19	2145	201	6.8
3	09/01/19	2247	180	6.3

AVERAGE OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa)	7.1
SPECIFICATOON FOR AVERAGE OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa) (ASTMC90)	6.0
SPECIFICATOON FOR INDIVIDUAL OF COMPRESSIVE STRENGTH (NET AREA) STRENGTH (Mpa) (ASTMC90)	4.8



Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department



TEST REPORT

REPORT ON TESTING MOISTURE CONTENT OF CONCRETE MASONRY UNIT

TEST METHOD ASTM C140
SAMPLE DESCRIPTION SOLID BLOCKS 400 X 200
DATE TESTED 08/01/19
AIR TEMPERATURE 22 °C
REPORT NO 2-129

MOISTURE CONTENT(%) OF TOTAL ABSORPTION

SAMPLE NO.	SAMPLE INFO	OVEN DRY WEIGHT (KG) (Wd)	ORIGINAL WIGHT(KG) (Wr)	SATURATED SURFACE DRY WIGHT(KG) (Ws)	MOISTURE CONTENT(%)
1	SOLID BLOCKS 400X200	32.120	32.450	33.746	20.3
2	SOLID BLOCKS 400X200	32.380	32.750	33.986	23.0

THIS METHOD : THE SAMPLES ARE THEN HEATED AT 100-115 °C IN THE OVEN FOR NO LESS THAN 24 HOURS . THE OVEN DRY WEIGHT IS OBTAINED AFTER THE DRYING PROCESS. THE WATER ABSORPTION OF CONCRETE MASONRY SAMPLES IS DETERMINED BY USING THE FOLLOWING FORMULA.

$$\text{MOISTURE CONTENT(}\%) = (W_r - W_d) / (W_s - W_d) \times 100$$

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

REPORT ON TESTING MOISTURE CONTENT OF CONCRETE MASONRY UNIT

TEST METHOD ASTM C140
SAMPLE DESCRIPTION HOLLOW BLOCKS 400 X 200
DATE TESTED 08/01/19
AIR TEMPERATURE 22 °C
REPORT NO 2-130

MOISTURE CONTENT(%) OF TOTAL ABSORPTION

SAMPLE NO.	SAMPLE INFO .	OVEN DRY WEIGHT (KG) (Wd)	ORIGINAL WIGHT(KG) (Wr)	SATURATED SURFACE DRY WIGHT(KG) (Ws)	MOISTURE CONTENT(%)
1.000	HOLLOW BLOCKS 400X200	20.340	21.521	21.150	22.3
2.000	HOLLOW BLOCKS 400X200	21.478	21.633	22.290	19.1

THIS METHOD : THE SAMPLES ARE THEN HEATED AT 100-115 °C IN THE OVEN FOR NO LESS THAN 24 HOURS . THE OVEN DRY WEIGHT IS OBTAINED AFTER THE DRYING PROCESS. THE WATER ABSORPTION OF CONCRETE MASONRY SAMPLES IS DETERMINED BY USING THE FOLLOWING FORMULA.

$$\text{MOISTURE CONTENT(}\%) = (W_r - W_d) / (W_s - W_d) \times 100$$

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

REPORT ON TESTING WATER ABSORPTION OF CONCRETE MASONRY UNIT

TEST METHOD ASTM C140
SAMPLE DESCRIPTION SOLID BLOCKS 400 X 200
DATE TESTED 12/01/19
AIR TEMPERATURE 22 °C
REPORT NO 2-131

WATER ABSORPTION OF CONCRETE MASONRY UNIT

SAMPLE NO.	SAMPLE INFO .	OVEN DRY WEIGHT (KG) (Wd)	SATURATED SURFACE DRY WIGHT(KG) (Ws)	IMMERSE D WEIGHT (KG) (Wi)	ABSOPTION (%)	ABSOPTION (kg/M3)
1	SOLID BLOCKS 400 X200	32.120	33.746	19.412	5.06%	113.4
2	SOLID BLOCKS 400 X200	32.380	33.986	19.518	4.96%	111.0

STAND REQUIREMENTS (ASTM C90)	INDIVIDUAL UNIT (kg/m3)	240 MAX
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THIS METHOD : THE SAMPLES ARE IMMERSED IN WATER FOR 24 HOURS AND WEIGHED IN SSD CONDITION . THE SAMPLES ARE THEN HEATED AT 100-115 °C IN THE OVEN FOR NO LESS THAN 24 HOURS . THE OVEN DRY WEIGHT IS OBTAINED AFTER THE DRYING PROCESS. THE WATER ABSORPTION OF CONCRETE MASONRY SAMPLES IS DETERMINED BY USING THE FOLLOWING FORMULA.

$$\text{WATER ABSORPTION (kg/m3)} = (Ws - Wd) / (Ws - Wi) \times 1000$$

$$\text{WATER ABSORPTION (\%)} = (Ws - Wd) / (Wd) \times 100$$

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

REPORT ON TESTING WATER ABSORPTION OF CONCRETE MASONRY UNIT

TEST METHOD ASTM C140
SAMPLE DESCRIPTION HOLLOW BLOCKS 400 X 200
DATE TESTED 08/01/19
AIR TEMPERATURE 22 °C
REPORT NO 2-132

WATER ABSORPTION OF CONCRETE MASONRY UNIT

SAMPLE NO.	SAMPLE INFO .	OVEN DRY WEIGHT (KG) (Wd)	SATURATED SURFACE DRY WIGHT(KG) (Ws)	IMMERSE D WEIGHT (KG) (Wi)	ABSOPTION (%)	ABSOPTION (kg/M3)
1	HOLLOW BLOCKS 400 X200	20.340	21.150	12.412	3.98%	92.7
2	HOLLOW BLOCKS 400 X200	21.487	22.290	12.958	3.78%	87.0

STAND REQUIREMENTS (ASTM C90)	INDIVIDUAL UNIT (kg/m3)	240 MAX
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THIS METHOD : THE SAMPLES ARE IMMERSED IN WATER FOR 24 HOURS AND WEIGHED IN SSD CONDITION . THE SAMPLES ARE THEN HEATED AT 100-115 °C IN THE OVEN FOR NO LESS THAN 24 HOURS . THE OVEN DRY WEIGHT IS OBTAINED AFTER THE DRYING PROCESS. THE WATER ABSORPTION OF CONCRETE MASONRY SAMPLES IS DETERMINED BY USING THE FOLLOWING FORMULA.

$$\text{WATER ABSORPTION (kg/m3)} = (Ws - Wd) / (Ws - Wi) \times 1000$$

$$\text{WATER ABSORPTION (\%)} = (Ws - Wd) / (Wd) \times 100$$

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

REPORT ON TESTING WATER ABSORPTION OF CONCRETE MASONRY UNIT

TEST METHOD ASTM C140
SAMPLE DESCRIPTION HOLLOW BLOCKS 400 X 150
DATE TESTED 08/01/19
AIR TEMPERATURE 22 °C
REPORT NO 2-133

WATER ABSORPTION OF CONCRETE MASONRY UNIT

SAMPLE NO.	SAMPLE INFO .	OVEN DRY WEIGHT (KG) (Wd)	SATURATED SURFACE DRY WIGHT(KG) (Ws)	IMMERSE D WEIGHT (KG) (Wi)	ABSOPTION (%)	ABSOPTION (kg/M3)
1	HOLLOW BLOCKS 400 X150	17.002	17.796	10.360	4.67%	106.8
2	HOLLOW BLOCKS 400 X150	17.330	18.136	10.518	4.65%	105.8

STAND REQUIREMENTS (ASTM C90)	INDIVIDUAL UNIT (kg/m3)	240 MAX
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THIS METHOD : THE SAMPLES ARE IMMERSED IN WATER FOR 24 HOURS AND WEIGHED IN SSD CONDITION . THE SAMPLES ARE THEN HEATED AT 100-115 °C IN THE OVEN FOR NO LESS THAN 24 HOURS . THE OVEN DRY WEIGHT IS OBTAINED AFTER THE DRYING PROCESS. THE WATER ABSORPTION OF CONCRETE MASONRY SAMPLES IS DETERMINED BY USING THE FOLLOWING FORMULA.

$$\text{WATER ABSORPTION (kg/m3)} = (Ws - Wd) / (Ws - Wi) \times 1000$$

$$\text{WATER ABSORPTION (\%)} = (Ws - Wd) / (Wd) \times 100$$

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

REPORT ON TESTING WATER ABSORPTION OF CONCRETE MASONRY UNIT

TEST METHOD ASTM C140
SAMPLE DESCRIPTION HOLLOW BLOCKS 400 X 100
DATE TESTED 12/01/19
AIR TEMPERATURE 22 °C
REPORT NO 2-134

WATER ABSORPTION OF CONCRETE MASONRY UNIT

SAMPLE NO.	SAMPLE INFO .	OVEN DRY WEIGHT (KG) (Wd)	SATURATED SURFACE DRY WIGHT(KG) (Ws)	IMMERSE D WEIGHT (KG) (Wi)	ABSOPTION (%)	ABSOPTION (kg/M3)
1	HOLLOW BLOCKS 400 X100	12.776	13.372	7.770	4.66%	106.4
2	HOLLOW BLOCKS 400 X100	12.833	13.414	7.848	4.52%	104.3

STAND REQUIREMENTS (ASTM C90)	INDIVIDUAL UNIT (kg/m3)	240 MAX
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THIS METHOD : THE SAMPLES ARE IMMERSED IN WATER FOR 24 HOURS AND WEIGHED IN SSD CONDITION . THE SAMPLES ARE THEN HEATED AT 100-115 °C IN THE OVEN FOR NO LESS THAN 24 HOURS . THE OVEN DRY WEIGHT IS OBTAINED AFTER THE DRYING PROCESS. THE WATER ABSORPTION OF CONCRETE MASONRY SAMPLES IS DETERMINED BY USING THE FOLLOWING FORMULA.

$$\text{WATER ABSORPTION (kg/m3)} = (Ws - Wd) / (Ws - Wi) \times 1000$$

$$\text{WATER ABSORPTION (\%)} = (Ws - Wd) / (Wd) \times 100$$

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

REPORT ON FIRE RESISTANCE RATING OF CONCRETE MASONRY UNIT

TEST METHOD ASTM C140
SAMPLE DESCRIPTION HOLLOW BLOCKS 400 X 200
DATE TESTED 12/01/19
AIR TEMPERATURE 21.5 °C
REPORT NO 2-135

EQUIVALENT THICKNESS OF CONCRETE MASONRY UNITS

SAMPLE NO.	SAMPLE INFO .	OVEN DRY WEIGHT (KG) (Wd)	SATURATED SURFACE DRY WIGHT(KG) (Ws)	IMMERSE D WEIGHT (KG) (Wi)	NET VOLUME (Vn) (mm3)	EQUIVALENT THICKNESS (Te) (MM)	PERCENT SOLID (%)
1	HOLLOW BLOCKS 400X200	20.340	21.150	11.936	9214000.0	115.18	57.60%
2	HOLLOW BLOCKS 400X200	21.478	22.290	12.958	9332000.0	116.65	77.80%

FIRE RESISTANCE RATING AS	400 x 200	2.10 HRS / 126m MINS
PER TABLE D -2.1.1, NBCC-10	400x 200	2.10 HRS / 126m MINS

NET VOLUME (mm3) = (Ws - Wi) x 1000000
EQUIVALENT THICKNESS (mm) = (Vn / L x W)
PERCENT SOLID (%) = (Vn / L x W x H)

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

REPORT ON FIRE RESISTANCE RATING OF CONCRETE MASONRY UNIT

TEST METHOD: ASTM C140
SAMPLE DESCRIPTION: SOLID BLOCKS 400 X 200
DATE TESTED: 12/01/19
AIR TEMPERATURE: 21.5 °C
REPORT NO: 2-136

EQUIVALENT THICKNESS OF CONCRETE MASONRY UNITS

SAMPLE NO.	SAMPLE INFO .	OVEN DRY WEIGHT (KG) (Wd)	SATURATED SURFACE DRY WEIGHT (KG) (Ws)	IMMERSED WEIGHT (KG) (Wi)	NET VOLUME (Vn) (mm ³)	EQUIVALENT THICKNESS (Te) (MM)	PERCENT SOLID (%)
1	HOLLOW BLOCKS 400X200	32.120	33.746	19.412	14334000.0	179.18	89.60%
2	HOLLOW BLOCKS 400X200	32.380	33.986	19.518	14468000.0	180.85	120.60%

FIRE RESISTANCE RATING AS	400 x 200	2.10 HRS / 126m MINS
PER TABLE D -2.1.1, NBCC-10	400x 200	2.10 HRS / 126m MINS

NET VOLUME (mm³) = (Ws - Wi) x 1000000
EQUIVALENT THICKNESS (mm) = (Vn / L x W)
PERCENT SOLID (%) = (Vn / L x W x H)

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

REPORT ON FIRE RESISTANCE RATING OF CONCRETE MASONRY UNIT

TEST METHOD: ASTM C140
SAMPLE DESCRIPTION: HOLLOW BLOCKS 400 X 100
DATE TESTED: 12/01/19
AIR TEMPERATURE: 21.5 °C
REPORT NO: 2-137

EQUIVALENT THICKNESS OF CONCRETE MASONRY UNITS

SAMPLE NO.	SAMPLE INFO .	OVEN DRY WEIGHT (KG) (Wd)	SATURATED SURFACE DRY WIGHT(KG) (Ws)	IMMERSE D WEIGHT (KG) (Wi)	NET VOLUME (Vn) (mm3)	EQUIVALENT THICKNESS (Te) (MM)	PERCENT SOLID (%)
1	HOLLOW BLOCKS 400X100	12.776	13.372	7.770	5602000.0	140.05	35.0%
2	HOLLOW BLOCKS 400X100	12.834	13.414	7.848	5566000.0	139.15	46.4%

FIRE RESISTANCE RATING AS	400 x 200	2.10 HRS / 126m MINS
PER TABLE D -2.1.1, NBCC-10	400x 200	2.10 HRS / 126m MINS

NET VOLUME (mm3) = (Ws - Wi) x 1000000
EQUIVALENT THICKNESS (mm) = (Vn / L x W)
PERCENT SOLID (%) = (Vn / L x W x H)

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

REPORT ON FIRE RESISTANCE RATING OF CONCRETE MASONRY UNIT

TEST METHOD	ASTM C140
SAMPLE DESCRIPTION	HOLLOW BLOCKS 400 X 150
DATE TESTED	13/01/19
AIR TEMPERATURE	21.5 °C
REPORT NO	2-138

EQUIVALENT THICKNESS OF CONCRETE MASONRY UITS

SAMPLE NO.	SAMPLE INFO .	OVEN DRY WEIGHT (KG) (Wd)	SATURATED SURFACE DRY WIGHT(KG) (Ws)	IMMERSE D WEIGHT (KG) (Wi)	NET VOLUME (Vn) (mm3)	EQUIVALE NT THICKNES S (Te) (MM)	PERCEN T SOULID (%)
1	HOLLOW BLOCKS 400X150	17.002	17.796	10.360	7436000.0	123.93	46.5%
2	HOLLOW BLOCKS 400X150	17.330	18.136	10.518	7618000.0	126.97	63.5%

FIRE RESISTANCE RATING AS	400 x 200	2.10 HRS / 126m MINS
PER TABLE D -2.1.1, NBCC-10	400x 200	2.10 HRS / 126m MINS

NET VOLUME (mm3) = (Ws-Wi) x1000000
EQUIVALENT THICKNESS (mm) = (Vn/ L x W)
PERCENT SOLID (%) = (Vn/ L x W x H)

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FLEXUTURAL STRENGTH FOR TILE

TEST METHOD EN100
SAMPLE DESCRIPTION TILE -DARK GRAY
DATE TESTED 10/05/17
REPORT NO 1-139

SAMPLE NO.	LENGTH	WIDTH	HEIGHT	LOAD(KN)	FLUXURAL STRENGTH (MPA)
1	269	192.20	42.7	3.1	3.5
2	268	192.30	42.7	2.6	3.0
3	269	192.40	42.7	2.8	3.3

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

WATER ABSORPTION FOR TILE

TEST METHOD

ASTM C 97

SAMPLE DESCRIPTION

TILE

DATE TESTED

26/06/17

REPORT NO.

2-140

SAMPLE NO.	SAMPLE DESCRIPTION	SSD WEIGHT (g)	DRY WEIGHT(g)	WEIGHT OF WATER (g)	WATER ABISORPTION (%)
1	TILE	14052.0	13489.0	563.00	4.2
2	TILE	13968.0	13324.0	644.00	4.8
3	TILE	13973.0	13342.0	631.00	4.7

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD

SAMPLE DESCRIPTION

DATE TESTED

Size (mm)

NCMA

Per- insulated Lode Bearing Concrete Hollow Block

12/03/19

400 X 200 X 200

REPORT NO. 2-141

Average Dimensions		
Length	mm	400
Width	mm	200
Height	mm	200
Face Shell Thickness	mm	30
Web Thickness	mm	30
Equivalent web thickness	mm	118

Weight & Volume Data		
Weight as received	gm	25,650
Weight Oven Dry	gm	20,500
Weight SSD	gm	22,000
Weight in water	gm	12,550
Net volume	cc	9,450
Net Area	mm ²	47,190

FIRE RESISTANCE RATING = 2.5 HOURS

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD NCMA
SAMPLE DESCRIPTION Per- insulated Lode Bearing Concrete Hollow Block
DATE TESTED 14/03/19
Size (mm) 400 X 250 X 200

REPORT NO. 2-142

Average Dimensions		
Length	mm	400
Width	mm	250
Height	mm	200
Face Shell Thickness	mm	30
Web Thickness	mm	30
Equivalent web thickness	mm	150

Weight & Volume Data		
Weight as received	gm	25,900
Weight Oven Dry	gm	25,850
Weight SSD	gm	27,500
Weight in water	gm	15,500
Net volume	cc	12,000
Net Area	mm ²	60,190

FIRE RESISTANCE RATING = 3.7 HOURS

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT
CONCRETE HOLLOW UNITS

Sample Description Per- insulated Lode Bearing Concrete Hollow Block
Nominal Size (L x W x H) 400 X 200 X 200 mm
Classification Normal Weight
Test Method ASTM C140-17
Date of Test 12/03/19
Report No 2-143

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits	
							ASTM C90-11	ASTM C129-11
							Normal Weight Class	
Average Dimensions	Length	mm	1	2	3	Ave.	Load Bearing	Non-Load Bearing
	Width		400.0	400.0	400.0	400.0	(+/- 3.2) mm from Specified Standard C30Dimensions.C30	
	Height		200.0	200.0	200.0	200.0		
Face Shell Thickness		mm	30.0	30.0	30.0	30.0	32 Min	13 Min
Web Thickness	1	mm	30.0	30.0	30.0	30.0	19 Min	-
	2		30.0	30.0	30.0	30.0		
	3		30.0	30.0	30.0	30.0		
Normalized Web Thickness		mm ² /m ²	225,000	225,000	225,000	225,000	45140 Min	-
		in. 2 / ft ²	32.4	32.4	32.4	32.4	6.5 Min	-
Net Area Test Date :			4	5	6	Ave.	-	-
Weight as received		gm	20550	20850	20500	20650	-	-
Weight Oven Dry		gm	20400	20750	20350	20500	-	-
Weight SSD		gm	21950	22100	21900	22000	-	-
Weight in water		gm	12550	12600	12500	12550	-	-
Net volume		cc	9400	9500	9400	9450	-	-
Density (Normal Wt.)	As Receivd	kg/m ³	2186	2195	2181	2187	-	-
	Oven Dry		2170	2184	2165	2173	> 2000	> 2000
Moisture Content % of total absorption		%	9.7	7.4	9.7	8.9	-	-
		%	7.6	6.5	7.6	7.2	-	-
Water Absorption		kg / m ³	165	142	165	157	208 Max . (Ave. of 3) 204 Max . (individual)	-
Net Area		mm	46995	47515	46995	47190	-	-
Maximum Load Attained		kN	617	643	652	655.335	-	-
Net Compressive Strength		Mpa	14.3	13.5	13.9	13.9	13.1 Min.(Ave . Of 3) 11.7 Min. (invidual)	4.14 Min. (Ave.Of 3) 3.45 Min. (invidual)

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





TEST REPORT
CONCRETE HOLLOW UNITS

Sample Description Per- insulated Lode Bearing Concrete Hollow Block
Nominal Size (L x W x H) 400 X 250 X 200 mm
Classification Normal Weight
Test Method ASTM C140-17
Date of Test 13/03/19
Report No 2-144

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits	
							ASTM C90-11	ASTM C129-11
							Normal Weight Class	
Average Dimensions	Length	mm	400.0	400.0	400.0	400.0	Load Bearing	Non-Load Bearing
	Width		250.0	250.0	250.0	250.0		
	Height		200.0	200.0	200.0	200.0		
	Face Shell Thickness		30.0	30.0	30.0	30.0		
Web Thickness	1	mm	30.0	30.0	30.0	30.0	19 Min	-
	2		30.0	30.0	30.0	30.0		
	3		30.0	30.0	30.0	30.0		
Normalized Web Thickness		mm ² /m ²	225,000	225,000	225,000	225,000	45140 Min	-
Net Area Test Date :		in. 2 / ft ²	32.4	32.4	32.4	32.4	6.5 Min	-
Weight as received		gm	27,250	26,350	27,100	26,900	-	-
Weight Oven Dry		gm	26,200	25,300	26,050	25,850	-	-
Weight SSD		gm	27,850	26,950	27,750	27,500	-	-
Weight in water		gm	15,800	14,900	15,750	15,500	-	-
Net volume		cc	12,050	12,050	12,000	12,000	-	-
Density (Normal Wt.)	As Receivd	kg/m ³	2,261	2,187	2,258	2,235	-	-
	Oven Dry		2,174	2,100	2,171	2,148	> 2000	> 2000
Moisture Content % of total absorption		%	63.6	63.6	61.8	63	-	-
Water Absorption		%	6.3	6.5	6.5	6.4	-	-
Net Area		kg / m ³	137	137	142	139	208 Max . (Ave. of 3) 204 Max . (individual)	-
Maximum Load Attained		kN	831	896	796	841	-	-
Net Compressive Strength		Mpa	13.8	14.9	13.3	14	13.1 Min.(Ave . Of 3) 11.7 Min. (invidual)	4.14 Min. (Ave.Of 3) 3.45 Min. (invidual)

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD

NCMA

SAMPLE DESCRIPTION

Non - Load Bearing Concrete Hollow Block (Closed Bottom) 3-cavity

DATE TESTED

18/03/19

Size (mm)

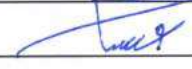
400 X 100 X 200

REPORT NO. 2-145

Average Dimensions		
Length	mm	400
Width	mm	100
Height	mm	200
Face Shell Thickness	mm	30
Web Thickness	mm	30
Equivalent web thickness	mm	77

Weight & Volume Data		
Weight as received	gm	13,100
Weight Oven Dry	gm	13,000
Weight SSD	gm	13,850
Weight in water	gm	7,750
Net volume	cc	6,100
Net Area	mm ²	30,845

FIRE RESISTANCE RATING = 1.2 HOURS

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD

SAMPLE DESCRIPTION

DATE TESTED

Size (mm)

NCMA

Load Bearing Concrete Hollow Block (Closed Bottom) 3-cavity

18/03/19

400 X 100 X 200

REPORT NO. 2-146

Average Dimensions		
Length	mm	400
Width	mm	100
Height	mm	200
Face Shell Thickness	mm	30
Web Thickness	mm	30
Equivalent web thickness	mm	78

Weight & Volume Data		
Weight as received	gm	14,000
Weight Oven Dry	gm	13,950
Weight SSD	gm	14,700
Weight in water	gm	8,500
Net volume	cc	6,200
Net Area	mm2	31,070

FIRE RESISTANCE RATING = 1.2 HOURS

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD

SAMPLE DESCRIPTION

DATE TESTED

Size (mm)

NCMA

Non -Load Bearing Concrete Hollow Block (open Bottom) 3-cavity

18/03/19

400 X 150X 200

REPORT NO. 2-147

Average Dimensions		
Length	mm	400
Width	mm	150
Height	mm	200
Face Shell Thickness	mm	30
Web Thickness	mm	30
Equivalent web thickness	mm	85

Weight & Volume Data		
Weight as received	gm	15,850
Weight Oven Dry	gm	15,800
Weight SSD	gm	16,650
Weight in water	gm	9,800
Net volume	cc	6,850
Net Area	mm ²	34,190

FIRE RESISTANCE RATING = 1.5 HOURS

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD

NCMA

SAMPLE DESCRIPTION

Non -Load Bearing Concrete Hollow Block (closed Bottom) 3-cavity

DATE TESTED

18/03/19

Size (mm)

400 X 200X 200

REPORT NO. 2-148

Average Dimensions		
Length	mm	400
Width	mm	200
Height	mm	200
Face Shell Thickness	mm	30
Web Thickness	mm	30
Equivalent web thickness	mm	113

Weight & Volume Data		
Weight as received	gm	21,050
Weight Oven Dry	gm	20,950
Weight SSD	gm	21,800
Weight in water	gm	12,750
Net volume	cc	9,050
Net Area	mm2	45,240

FIRE RESISTANCE RATING = 2.2 HOURS

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD

NCMA

SAMPLE DESCRIPTION

Non -Load Bearing Concrete Hollow Block (closed Bottom) 3-cavity

DATE TESTED

18/03/19

Size (mm)

400 X 200X 200

REPORT NO. 2-149

Average Dimensions		
Length	mm	400
Width	mm	200
Height	mm	200
Face Shell Thickness	mm	30
Web Thickness	mm	30
Equivalent web thickness	mm	113

Weight & Volume Data		
Weight as received	gm	21,050
Weight Oven Dry	gm	20,950
Weight SSD	gm	21,800
Weight in water	gm	12,750
Net volume	cc	9,050
Net Area	mm2	45,240

FIRE RESISTANCE RATING = 2.2 HOURS

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD

SAMPLE DESCRIPTION

DATE TESTED

Size (mm)

NCMA

Load Bearing Concrete Hollow Block (closed Bottom) 3-cavity

18/03/19

400 X 150X 200

REPORT NO. 2-150

Average Dimensions		
Length	mm	400
Width	mm	150
Height	mm	200
Face Shell Thickness	mm	30
Web Thickness	mm	30
Equivalent web thickness	mm	91

Weight & Volume Data		
Weight as received	gm	16,300
Weight Oven Dry	gm	16,250
Weight SSD	gm	17,050
Weight in water	gm	9,750
Net volume	cc	7,300
Net Area	mm ²	36,595

FIRE RESISTANCE RATING = 1.5 HOURS

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD

NCMA

SAMPLE DESCRIPTION

Load Bearing Concrete Hollow Block (closed Bottom) 3-cavity

DATE TESTED

14/03/19

Size (mm)

400 X 200X 200

REPORT NO. 2-151

Average Dimensions		
Length	mm	400
Width	mm	200
Height	mm	200
Face Shell Thickness	mm	30
Web Thickness	mm	30
Equivalent web thickness	mm	117

Weight & Volume Data		
Weight as received	gm	21,400
Weight Oven Dry	gm	21,300
Weight SSD	gm	22,250
Weight in water	gm	12,900
Net volume	cc	9,350
Net Area	mm ²	46,670

FIRE RESISTANCE RATING = 2.3 HOURS

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD

SAMPLE DESCRIPTION

DATE TESTED

Size (mm)

NCMA

Non- Load Bearing Concrete Hollow Block (closed Bottom) 2-cavity

12/12/18

400 X 100 X 200

REPORT NO. 2-152

Average Dimensions		
Length	mm	400
Width	mm	100
Height	mm	200
Face Shell Thickness	mm	40
Web Thickness	mm	40
Equivalent web thickness	mm	76

Weight & Volume Data		
Weight as received	gm	14,050
Weight Oven Dry	gm	13,900
Weight SSD	gm	14,550
Weight in water	gm	8,500
Net volume	cc	6,050
Net Area	mm ²	30,250

FIRE RESISTANCE RATING = 0.9 HOURS

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD
SAMPLE DESCRIPTION
DATE TESTED
Size (mm)

NCMA
Load Bearing Concrete Hollow Block (open Bottom) 2-cavity
12/12/18
400 X 150 X 200

REPORT NO. 2-153

Average Dimensions		
Length	mm	400
Width	mm	150
Height	mm	200
Face Shell Thickness	mm	30
Web Thickness	mm	30
Equivalent web thickness	mm	103

Weight & Volume Data		
Weight as received	gm	19,500
Weight Oven Dry	gm	18,750
Weight SSD	gm	20,000
Weight in water	gm	8,200
Net volume	cc	11,800
Net Area	mm ²	41,015

FIRE RESISTANCE RATING = 1.9 HOURS

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

FIRE RATING

TEST METHOD

NCMA

SAMPLE DESCRIPTION

Load Bearing Concrete Hollow Block (open Bottom) 2-cavity

DATE TESTED

12/12/18

Size (mm)

400 X 200 X 200

REPORT NO. 2-154

Average Dimensions		
Length	mm	400
Width	mm	200
Height	mm	200
Face Shell Thickness	mm	30
Web Thickness	mm	30
Equivalent web thickness	mm	117

Weight & Volume Data		
Weight as received	gm	21,000
Weight Oven Dry	gm	20,900
Weight SSD	gm	21,950
Weight in water	gm	12,550
Net volume	cc	9,400
Net Area	mm ²	46,930

FIRE RESISTANCE RATING = 2.4 HOURS

Reviewed by	Eng. Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

CONCRETE HOLLOW UNITS

Sample Description
Nominal Size (L x W x H)
Classification
Test Method
Date of Test
Report No

Load Bearing Concrete Hollow Block (Closed Bottom) 3-cavity
400 X100X 200 mm
Normal Weight
ASTM C140-17
13/03/19
2-155

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits	
							ASTM C90-11	ASTM C129-11
							Normal Weight Class	
			1	2	3	Ave.	Load Bearing	Non-Load Bearing
Average Dimensions	Length	mm	400.0	400.0	400.0	400.0	(+/- 3.2) mm from Specified Standard C30Dimensions.C30	
	Width		100.0	100.0	100.0	100.0		
	Height		200.0	200.0	200.0	200.0		
Face Shell Thickness		mm	30.0	30.0	30.0	30.0	32 Min	13 Min
Web Thickness	1	mm	30.0	30.0	30.0	30.0	19 Min	-
	2		30.0	30.0	30.0	30.0		
	3		30.0	30.0	30.0	30.0		
Normalized Web Thickness		mm ² /m ²	225,000	225,000	225,000	225,000	45140 Min	-
		in.2 / ft2	32.4	32.4	32.4	32.4	6.5 Min	-
Net Area Test Date :			4	5	6	Ave.	-	-
Weight as received		gm	13,100	13,050	13,100	13,100	-	-
Weight Oven Dry		gm	13,050	13,000	13,000	13,000	-	-
Weight SSD		gm	13,800	13,850	13,900	13,850	-	-
Weight in water		gm	7,750	7,750	7,750	7,750	-	-
Net volume		cc	6,050	6,100	6,150	6,100	-	-
Density (Normal Wt.)	As Receivd	kg/m3	2,165	2,139	2,130	2,145	-	-
	Oven Dry		2,157	2,131	2,114	2,134	> 2000	> 2000
Moisture Content % of total absorption		%	6.7	5.9	11.1	7.9	-	-
		%	5.7	6.5	6.9	6.4	-	-
Water Absorption		kg / m3	124	139	146	137	208 Max . (Ave. of 3)	-
			30,225	30,485	30,745	30,485	204 Max . (individual)	-
Net Area		mm	30,225	30,485	30,745	30,485	-	-
Maximum Load Attained		kN	353	368	355	358.665	-	-
Net Compressive Strength		Mpa	11.7	12.1	11.5	11.8	13.1 Min. (Ave . Of 3) 11.7 Min. (invidual)	4.14 Min. (Ave.Of 3) 3.45 Min. (invidual)

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

CONCRETE HOLLOW UNITS

Sample Description
Nominal Size (L x W x H)
Classification
Test Method
Date of Test
Report No

Load Bearing Concrete Hollow Block (Closed Bottom) 3-cavity
400 X150X 200 mm
Normal Weight
ASTM C140-17
13/03/19
2-156

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits		
							ASTM C90-11	ASTM C129-11	
			Normal Weight Class				Load Bearing	Non-Load Bearing	
Average Dimensions	Length	mm	400.0	400.0	400.0	400.0	(+/- 3.2) mm from Specified Standard C30Dimensions.C30		
	Width		150.0	150.0	150.0	150.0			
	Height		200.0	200.0	200.0	200.0			
Face Shell Thickness		mm	30.0	30.0	30.0	30.0	32 Min	13 Min	
Web Thickness		mm	30.0	30.0	30.0	30.0	19 Min	-	
			2	30.0	30.0	30.0			30.0
			3	30.0	30.0	30.0			30.0
Normalized Web Thickness		mm2/m2	225,000	225,000	225,000	225,000	45140 Min	-	
		in.2 / ft2	32.4	32.4	32.4	32.4	6.5 Min	-	
Net Area Test Date :			4	5	6	Ave.	-	-	
Weight as received		gm	16,300	16,350	16,200	16,300	-	-	
Weight Oven Dry		gm	16,250	16,300	16,150	16,250	-	-	
Weight SSD		gm	17,100	17,050	17,050	17,050	-	-	
Weight in water		gm	9,800	9,750	9,700	9,750	-	-	
Net volume		cc	7,300	7,300	7,350	7,300	-	-	
Density (Normal Wt.)	As Receivd	kg/m3	2,233	2,240	2,204	2,226	-	-	
	Oven Dry		2,226	2,233	2,197	2,219	> 2000	> 2000	
Moisture Content % of total absorption		%	5.9	6.7	5.6	6	-	-	
Water Absorption		%	5.2	4.6	5.6	5.1	-	-	
		kg / m3	116	103	122	114	208 Max . (Ave. of 3) 204 Max . (individual)	-	
Net Area		mm	36,530	36,530	36,725	36,595	-	-	
Maximum Load Attained		kN	566	586	560	570665	-	-	
Net Compressive Strength		Mpa	15.6	16	15	15.6	13.1 Min.(Ave . Of 3) 11.7 Min. (invidual)	4.14 Min. (Ave.Of 3) 3.45 Min. (invidual)	

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

CONCRETE HOLLOW UNITS

Sample Description
Nominal Size (L x W x H)
Classification
Test Method
Date of Test
Report No

Non-Load Bearing Concrete Hollow Block (Closed Bottom) 3-cavity
400 X200X 200 mm
Normal Weight
ASTM C140-17
18/03/19
2-157

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits	
							ASTM C90-11	ASTM C129-11
							Normal Weight Class	
			1	2	3	Ave.	Load Bearing	Non-Load Bearing
Average Dimensions	Length	mm	400.0	400.0	400.0	400.0	(+/- 3.2) mm from Specified Standard C30Dimensions.C30	
	Width		200.0	200.0	200.0	200.0		
	Height		200.0	200.0	200.0	200.0		
Face Shell Thickness		mm	40.0	40.0	40.0	40.0	32 Min	13 Min
Web Thickness	1	mm	40.0	40.0	40.0	40.0	19 Min	-
	2		40.0	40.0	40.0	40.0		
	3		40.0	40.0	40.0	40.0		
Normalized Web Thickness		mm ² /m ²	300.000	300.000	300.000	300.000	45140 Min	-
		in.2 / ft2	43.2	43.2	43.2	43.2	6.5 Min	-
Net Area Test Date :			4	5	6	Ave.	-	-
Weight as received		gm	21,200	20,900	21,000	21,050	-	-
Weight Oven Dry		gm	21,150	20,850	20,900	20,950	-	-
Weight SSD		gm	21,950	21,600	21,800	21,800	-	-
Weight in water		gm	12,850	12,550	12,800	12,750	-	-
Net volume		cc	9,100	9,050	9,000	9,050	-	-
Density (Normal Wt.)	As Receivd	kg/m3	2,330	2,309	2,333	2,324	-	-
	Oven Dry		2,324	2,304	2,322	2,317	> 2000	> 2000
Moisture Content % of total absorption		%	6.3	6.7	11.1	8	-	-
		%	3.8	3.6	4.3	3.9	-	-
Water Absorption		kg / m3	88	83	100	90	208 Max . (Ave. of 3) 204 Max . (individual)	-
Net Area		mm	45,500	45,240	44,980	45,240	-	-
Maximum Load Attained		kN	683	705	681	689.655	-	-
Net Compressive Strength		Mpa	15	15.6	15.1	15.2	13.1 Min.(Ave . Of 3) 11.7 Min. (invidual)	4.14 Min. (Ave.Of 3) 3.45 Min. (invidual)

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

CONCRETE HOLLOW UNITS

Sample Description
Nominal Size (L x W x H)
Classification
Test Method
Date of Test
Report No

Load Bearing Concrete Hollow Block (Closed Bottom) 3-cavity
400 X200X 200 mm
Normal Weight
ASTM C140-17
13/03/19
2-158

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits	
							ASTM C90-11	ASTM C129-11
							Normal Weight Class	
			Load Bearing	Non-Load Bearing				
Average Dimensions	Length	mm	400.0	400.0	400.0	400.0	(+/- 3.2) mm from Specified Standard C30Dimensions.C30	
	Width		200.0	200.0	200.0	200.0		
	Height		200.0	200.0	200.0	200.0		
Face Shell Thickness		mm	40.0	40.0	40.0	40.0	32 Min	13 Min
Web Thickness		mm	40.0	40.0	40.0	40.0	19 Min	-
			40.0	40.0	40.0	40.0		
			40.0	40.0	40.0	40.0		
Normalized Web Thickness		mm2/m2	300.000	300.000	300.000	300.000	45140 Min	-
		in.2 / ft2	43.2	43.2	43.2	43.2	6.5 Min	-
Net Area Test Date :			4	5	6	Ave.	-	-
Weight as received		gm	21,200	21,650	21,300	21,400	-	-
Weight Oven Dry		gm	21,150	21,600	21,200	21,300	-	-
Weight SSD		gm	22,050	22,500	22,150	22,250	-	-
Weight in water		gm	12,700	13,200	12,800	12,900	-	-
Net volume		cc	9,350	9,300	9,350	9,350	-	-
Density (Normal Wt.)	As Receivd	kg/m3	2,267	2,328	2,278	2,291	-	-
	Oven Dry		2,262	2,323	2,267	2,284	> 2000	> 2000
Moisture Content % of total absorption		%	5.6	5.6	10.5	7.2	-	-
		%	4.3	4.2	4.5	4.3	-	-
Water Absorption		kg / m3	96	97	102	98	208 Max . (Ave. of 3) 204 Max . (individual)	-
Net Area			mm	46,735	46,475	46,735	46,670	-
Maximum Load Attained		kN	885	1098	905	962.655	-	-
Net Compressive Strength		Mpa	18.9	23.6	19.4	20.6	13.1 Min.(Ave . Of 3) 11.7 Min. (invidual)	4.14 Min. (Ave.Of 3) 3.45 Min. (invidual)

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

CONCRETE HOLLOW UNITS

Sample Description
Nominal Size (L x W x H)
Classification
Test Method
Date of Test
Report No

Load Bearing Concrete Hollow Block -2-cavity
400 X100X 200 mm
Normal Weight
ASTM C140-17
13/03/19
2-159

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits	
							ASTM C90-11	ASTM C129-11
							Normal Weight Class	
Average Dimensions	Length	mm	1	2	3	Ave.	Load Bearing	Non-Load Bearing
	Width		400.0	400.0	400.0	400.0	(+/- 3.2) mm from Specified Standard C30Dimensions.C30	
	Height		100.0	100.0	100.0	100.0		
Face Shell Thickness		mm	200.0	200.0	200.0	200.0	32 Min	13 Min
Web Thickness	1	mm	40.0	40.0	40.0	40.0	19 Min	-
	2		40.0	40.0	40.0	40.0		
	3		40.0	40.0	40.0	40.0		
Normalized Web Thickness		mm ² /m ²	300.000	300.000	300.000	300.000	45140 Min	-
		in.2 / ft2	43.2	43.2	43.2	43.2	6.5 Min	-
Net Area Test Date :			4	5	6	Ave.	-	-
Weight as received		gm	13,750	14,400	13,900	14,000	-	-
Weight Oven Dry		gm	13,650	14,300	13,800	13,900	-	-
Weight SSD		gm	14,250	14,900	14,350	14,500	-	-
Weight in water		gm	8,450	9,050	8,450	8,650	-	-
Net volume		cc	5,800	5,850	5,900	5,850	-	-
Density (Normal Wt.)	As Receivd	kg/m3	2,371	2,462	2,356	2,396	-	-
	Oven Dry		2,353	2,444	2,339	2,379	> 2000	> 2000
Moisture Content % of total absorption		%	16.7	16.7	18.2	17.2	-	-
		%	4.4	4.2	4	4.2	-	-
Water Absorption		kg / m3	103	103	93	100	208 Max . (Ave. of 3) 204 Max . (individual)	-
Net Area		mm	28,990	29,250	29,510	29,250	-	-
Maximum Load Attained		kN	654	676	661	663.665	-	-
Net Compressive Strength		Mpa	22.6	23.1	22.4	22.7	13.1 Min.(Ave . Of 3) 11.7 Min. (invidual)	4.14 Min. (Ave.Of 3) 3.45 Min. (invidual)

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





TEST REPORT

CONCRETE HOLLOW UNITS

Sample Description
Nominal Size (L x W x H)
Classification
Test Method
Date of Test
Report No

Non-Load Bearing Concrete Hollow Block (open bottom)-3-cavity
400 X150X 200 mm
Normal Weight
ASTM C140-17
18/03/19
2-160

TEST RESULTS

TEST PARAMETERS		UNIT	TEST RESULTS				Required Limits	
							ASTM C90-11	ASTM C129-11
							Normal Weight Class	
			Load Bearing	Non-Load Bearing				
Average Dimensions	Length	mm	400.0	400.0	400.0	400.0	(+/- 3.2) mm from Specified Standard C30Dimensions.C30	
	Width		150.0	150.0	150.0	150.0		
	Height		200.0	200.0	200.0	200.0		
Face Shell Thickness		mm	40.0	40.0	40.0	40.0	32 Min	13 Min
Web Thickness		mm	40.0	40.0	40.0	40.0	19 Min	-
			40.0	40.0	40.0	40.0		
			40.0	40.0	40.0	40.0		
Normalized Web Thickness		mm2/m2	225.000	225.000	225.000	225.000	45140 Min	-
		in.2 / ft2	32.4	32.4	32.4	32.4	6.5 Min	-
Net Area Test Date :			4	5	6	Ave.	-	-
Weight as received		gm	15,900	15,850	15,800	15,850	-	-
Weight Oven Dry		gm	15,800	15,800	15,750	15,800	-	-
Weight SSD		gm	16,700	16,600	16,600	16,650	-	-
Weight in water		gm	9,800	9,800	9,800	9,800	-	-
Net volume		cc	6,900	6,800	6,800	6,850	-	-
Density (Normal Wt.)	As Receivd	kg/m3	2,304	2,331	2,324	2,320	-	-
	Oven Dry		2,290	2,324	2,316	2,310	> 2000	> 2000
Moisture Content % of total absorption		%	11.1	6.3	5.9	7.7	-	-
Water Absorption		%	5.7	5.1	5.4	5.4	-	-
		kg / m3	130	118	125	124	208 Max . (Ave. of 3) 204 Max . (individual)	-
Net Area		mm	34,515	33,995	33,995	34,190	-	-
Maximum Load Attained		kN	451	413	438	434	-	-
Net Compressive Strength		Mpa	13.1	12.1	12.9	12.7	13.1 Min.(Ave . Of 3) 11.7 Min. (inividual)	4.14 Min. (Ave.Of 3) 3.45 Min. (inividual)

Reviewed by	Eng.Abdullah Dini		Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi		

This test was under supervision of Quality control Department





TEST REPORT

Fire Resistance

Sample Description
Nominal Size (L x W x H)
Test Method
Date of Test
Report No

Solid Block
400 X200X 200 mm
ACI 216
18/03/19
2-161

Type	Sample No.	Dimensions (mm)					Fire Resistance (hours)	
		Length	width	height	Face	Web		
400 x 200 x 200	1	400	200	200	-	-	-	5.366
	2	400	200	200	-	-	-	5.366
	3	400	200	200	-	-	-	5.366



Reviewed by	Eng. Abdullah Dini		
Supervisor	Eng. Mohammed Al-Qithmi		



TEST REPORT

Fire Resistance

Sample Description
Nominal Size (L x W x H)
Test Method
Date of Test
Report No

Solid Block
400 X150 X 200 mm
ACI 216
13/03/19
2-162

Type	Sample No.	Dimensions (mm)					Fire Resistance (hours)	
		Length	width	height	Face	Web		
400 x 150 x 200	1	400	150	200	-	-	-	3.619
	2	400	150	200	-	-	-	3.619
	3	400	150	200	-	-	-	3.619



Reviewed by	Eng. Abdullah Dini		
Supervisor	Eng. Mohammed Al-Qithmi		



TEST REPORT

Sample Description
Nominal Size (L x W x H)
Test Method
Date of Test
Report No

13/03/19
2-163

Dimensions :

Type	Sample No.	Length	width	height
400 x 200 x 200	1	400	200	200
	2	400	200	200
	3	400	200	200
ASTM C90 -16 Requirments		396.8-403.2	196.8-203.2	196.8-203.2

Test Results by Measured Dimensions :

Type	Sample No.	Length	width	height	Dry Density (kg/m3)	Max Load KN	weight (gr)	Comp Strength Indiv.(Mpa)	Comp Strength Ave(Mpa)
400 x 200 x 200	1	400	200	200	2058.4	1283.0	32934.0	16.0	15.7
	2	400	200	200	2068.8	1196.0	33100.0	15.0	
	3	400	200	200	2060.0	1300.0	32960.0	16.3	
ASTM C90 Requirments for Load Bearing Concrete Masonry Units (Mpa)								Min. 11.7	Min.13.1

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





TEST REPORT

Sample Description
Nominal Size (L x W x H)
Test Method
Date of Test
Report No

13/03/19
2-164

Dimensions :

Type	Sample No.	Length	width	height
400 x 150x 200	1	400	150	200
	2	400	150	200
	3	400	150	200
ASTM C90 -16 Requirments		396.8-403.2	146.8 - 153.2	196.8-203.2

Test Results by Measured Dimensions :

Type	Sample No.	Length	width	height	Dry Density (kg/m3)	Max Load KN	weight (gr)	Comp Strength Indiv.(Mpa)	Comp Strength Ave(Mpa)
400 x 150 x 200	1	400	150	200	2099.2	1061.0	25190.0	17.7	16.1
	2	400	150	200	2104.6	767.7	25255.0	12.8	
	3	400	150	200	2109.2	1077.0	25310.0	18.0	
ASTM C90 Requirments for Load Bearing Concrete Masonry Units (Mpa)								Min. 11.7	Min.13.1

Reviewed by	Eng.Abdullah Dini	Report received by (Name &Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





TEST REPORT

Sample Description Solid Block
Nominal Size (L x W x H) 100 X 200 X400 cm
Test Method ASTM C90 -16 / ASTM C90
Date of Test 13/03/19
Report No 2-165

Dimensions :

Type	Sample No.	Length	width	height
400 x 100x 200	1	400	100	200
	2	400	100	200
	3	400	100	200
ASTM C90 -16 Requirments		396.8-403.2	96.8-103.2	196.8-203.2

Test Results by Measured Dimensions :

Type	Sample No.	Dimensions (mm)			Dry Density (kg/m3)	Max Load KN	weight (gr)	Comp Strength Indiv.(Mpa)	Comp Strength Ave(Mpa)
		Length	width	height					
400 x 100 x 200	1	400	100	200	2021.8	482.0	16174.0	12.1	13.1
	2	400	100	200	2001.3	494.0	16010.0	12.4	
	3	400	100	200	2046.4	597.2	16371.0	14.4	
ASTM C90 Requirments for Load Bearing Concrete Masonry Units (Mpa)								Min. 11.7	Min.13.1

Reviewed by	Eng.Abdullah Dini	Report received by (Name & Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





TEST REPORT

Compressive Strength Test

Sample Description
Nominal Size (L x W x H)
Test Method
Date of Test
Report No

ASTM C 140 / C140M-15
400 X65X 200 mm
ASTM C140
13/03/19
2-166

Test Specimen No	Length	Width	Thickness	Area(mm2)	compression Dial Reading KN	Corrected Load (KN)	Compressive Strength (Net Area)		
							kg / cm2	psi	Mpa
1	200	101	65	20200	978.5	978.5	494	7020	48.4
2	200	102	65	20400	999.4	998.4	499	7090	48.9
3	200	102	65	20400	1004.3	1004.3	502	7130	49.2
Average									48.8

Aspect Ratio Factor :1.00

Specimen Number	Average Width mm	Average Height mm	Average Length mm
1	200	65	400
2	200	65	400
3	200	65	400

Specimen Number	received Weight, Wr Kg	immerse d Weight,	Saturated Weight , Ws Kg	Oven Dry Weight Wd Kg	Absorption	Density Kg / m3	Net Volume Vn mm3
1	12.300	7.489	12.680	12.240	3.6	2358	5191000
2	12.420	7.610	12.670	12.240	3.5	2419	5060000
3	12.310	7.460	12.650	12.230	3.4	2356	5190000



COMPRESSIVE STRENGTH OF CURBSTONE CUBE

Doc. # SAFCO-QSP-16/F02-20

Rev.# 00

Issue #: 01

Form Date: 06/8/ 2020

PROJECT	اعتماد منتجات اسمنتية	REPORT DATE	16/12/2021
CLIENT	الشركة البلاتينية للمقاولات	REF	MK-SMF-3727
LOCATION	جدة - المملكة العربية السعودية	Received Date:16-12-2021	
SUPPLIER	مكتب سرمد للخدمات الذهبية	TEMP	26%
		HUMIDITY	41%
MIX DESIGN NUMBER	-	SPEC. 28 DAYS STRENGTH	35.0 Mpa
TYPE OF CEMENT	-	SPEC. 07 DAYS STRENGTH	- MPa

DIMENSIONS:

LENGTH	15 cm	AREA	225.00 cm ²
WIDTH	15 cm	VOLUME	3375.0 cm ³

DATE CAST	10/12/2021	SLUMP	- (mm)
DATE RECEIVED	16/12/2021	AIR TEMPERATURE	- (° C)
DATE TESTED	16/12/2021	CONCRETE TEMPERATURE	- (° C)

SAMPLE No	TYPE OF STRUCTURE / LOCATION	AGE (days)	WEIGHT (gm)	DENSITY (gm/cm ³)	LOAD (kN)	STRENGTH	
						(Kgf/cm ²)	(MPa)
S-1	Curbstone (50*30*15)	6	7,790	2.308	714.90	324.0	31.77
S-2		6	7,831	2.320	725.20	328.7	32.23
S-3	>> >>	6	7,856	2.328	693.80	314.4	30.84
	nothing follows			Average	711.3	322.4	31.6

هذه النتيجة خاصة بالمصنع لتأكيد الجودة وليست ضمن أعمال أمانة العاصمة المقدسة

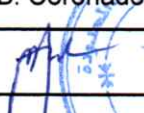
REMARKS:	*Only Crushing. *Result Relate only to the Sample as Received .
----------	--

SAMPLED BY:	TEST PERFORMED BY :	CHECKED BY :
Contractor	NAME Musa	NAME ABDALAZIZ SAMAIR
16/12/2021	16/12/2021	SIGNATURE
		DATE 16/12/2021

Foreign Limited Liability Paid Capital Two Millions Riyals
C.R.1010146514 -c.c.no 84394 Makkah Branch -
K.S.A - Tel 5504555 - Fax 5541494



COMPRESSIVE STRENGTH OF INTERLOCKING TILES

PROJECT	Bin Shihon Car Workshop	DATE	26-Jul-2021
CLIENT	Golder Samard Office & Commerce	REF	SMF-7081
LOCATION	Kilo 2, Old Makkah Road, Jeddah., Kingdom of Saudi Arabia		
Intelock Tiles Dimensions			
LENGTH	22.5 cm	AREA	250.00 cm ²
WIDTH	11.3 cm	VOLUME	1500.0 cm ³
THICKNESS	6.0 cm		
DATE CAST			
-			
DATE RECEIVED			
26 July 2021			
DATE TESTED			
26 July 2021			
Sample No.	SAMPLE DIMENSION	Age days	Weight gm
			Density gm/cm³
			Load kN
			Cor. Load kN
			STRENGTH
			Kgf/cm²
			Mpa
S - 1	2-D Interlock Tiles	28	3,410
			2.273
			1170.5
			1240.7
			506.1
			49.6
S - 2	" " "	28	3,442
			2.295
			1045.5
			1108.2
			452.0
			44.3
S - 3	" " "	28	3,308
			2.205
			1078.0
			1142.7
			466.1
			45.7
Average			3,387
			2.258
			1,098.0
			1,163.9
			474.7
			46.6
REMARKS:			
Correction Factor as per BS 6717 for chamfer block with thickness of 6.0 cm = 1.06			
Sample Delivered by client to SAFCO laboratory			
Supplier:			
Taibah Al Khair			
TEST PERFORMED BY :		CHECKED BY :	
NAME	Usman	NAME	M. B. Coronado
SIGNATURE		SIGNATURE	
DATE	26 July 2021	DATE	26 July 2021



COMPRESSIVE STRENGTH OF CURBSTONE CUBE

Doc. # SAFCO-QSP-16/F02-20

Rev.# 00

Issue #: 01

Form Date: 06/8/ 2020

PROJECT	اعتماد منتجات اسمنتية	REPORT DATE	16/12/2021
CLIENT	الشركة البلاتينية للمقاولات	REF	MK-SMF-3727
LOCATION	جدة - المملكة العربية السعودية	Received Date:16-12-2021	
SUPPLIER	مكتب سرمد للخدمات الذهبية	TEMP	26%
		HUMIDITY	41%
MIX DESIGN NUMBER	-	SPEC. 28 DAYS STRENGTH	35.0 Mpa
TYPE OF CEMENT	-	SPEC. 07 DAYS STRENGTH	- MPa

DIMENSIONS:

LENGTH	15 cm	AREA	225.00 cm ²
WIDTH	15 cm	VOLUME	3375.0 cm ³

DATE CAST	10/12/2021	SLUMP	- (mm)
DATE RECEIVED	16/12/2021	AIR TEMPERATURE	- (° C)
DATE TESTED	16/12/2021	CONCRETE TEMPERATURE	- (° C)

SAMPLE No	TYPE OF STRUCTURE / LOCATION	AGE (days)	WEIGHT (gm)	DENSITY (gm/cm ³)	LOAD (kN)	STRENGTH	
						(Kgf/cm ²)	(MPa)
S-1	Curbstone (50*30*15)	6	7,790	2.308	714.90	324.0	31.77
S-2		6	7,831	2.320	725.20	328.7	32.23
S-3	>> >>	6	7,856	2.328	693.80	314.4	30.84
	nothing follows			Average	711.3	322.4	31.6

هذه النتيجة خاصة بالمصنع لتأكيد الجودة وليست ضمن أعمال أمانة العاصمة المقدسة

REMARKS:	*Only Crushing. *Result Relate only to the Sample as Received .
----------	--

SAMPLED BY:	TEST PERFORMED BY :	CHECKED BY :
Contractor	NAME Musa	NAME ABDIAZIZ SAMAIR
16/12/2021	16/12/2021	SIGNATURE
		DATE 16/12/2021

Foreign Limited Liability Paid Capital Two Millions Riyals
C.R.1010146514 -c.c.no 84394 Makkah Branch -
K.S.A - Tel 5504555 - Fax 5541494





GOLDEN
SARMAD

الاعتمادات وسابقة الاعمال

P.O.Box 1178 Jeddah 21431
Kingdom of Saudi Arabia
Tel: +966 12 2344257 / 2344258
Fax: +966 12 2344259
CR : 4030207094
VAT:300281871800003



أمر شراء

ص.ب 1178 جده 21431
المملكة العربية السعودية
هاتف: +966 12 2344257/2344258
فاكس: +966 12 2344259
سجل تجارى : 4030207094
القيمة المضافة : 3002818718000033

PURCHASE ORDER

Vendor No & Name:	SRF2055-CASH CREDITOR - LP	رقم المورد / الاسم
Address:		عنوان المورد
Tele / Fax No:		رقم التليفون / فاكس

P.O. NUMBER رقم أمر الشراء	PR REF NO رقم طلب الشراء	P.O. DATE تاريخ أمر الشراء	MODE OF TRANSPORT وسيلة الشحن	P.O. STATUS حالة أمر الشراء	DELIVERY LOCATION موقع التوريد
PO-019643	085681	09/11/2020	Truck.	Open order	Dhaban-MWH

Payment Terms:	100%ADV	شروط الدفع
Delivery Terms:	After Paym	شروط التوريد

SL	ITEM CODE رقم الصنف	ITEM DESCRIPTION المواصفات	UOM الوحدة	QTY الكمية	UNIT PRICE سعر الوحدة	CUR العملة	TOTAL الأجمالى
1	COM43826	Kerbstone Gray 15x30x50/Kerbstone Gray 15x30x50. KERBSTONE GRAY 10x30x50	ea	200.00		SAR	
2	COM43826	Kerbstone Gray 15x30x50/Kerbstone Gray 15x30x50. KERBSTONE GRAY 10x30x50 Pay To : Golden Sarmad Trading Co.	ea	500.00		SAR	
TOTAL الأجمالى :							
DISCOUNT الخصم :							
VAT ضريبة القيمة المضافة :							
TOTAL IN WORDS: SAR*** *** Ten Thousand Four Hundred Sixty Five and 00/100 Only الأجمالى النهائى							

This is computer generated document approved electronically and does not require signature or stamp

PURCHASING OFFICER

PURCHASING MANAGER

TERMS AND CONDITIONS

Delivery: Delivery on time is essence of this purchase order, if vendor fails to make deliveries within the time specified overleaf purchaser may terminate this purchase order either partly or fully the purchaser also reserves the right to himself to purchase the goods from any other vendor and charge the vendor with loss incurred as a result thereof. Delivery shall be as per Incoterms 2010 as mentioned overleaf.

VALIDITY -This Purchase Order is valid only if all materials mentioned herein are delivered without any damage and in correct quality, quantity within specified delivery time. CANCELLATION -The Purchaser reserves the right to cancel this order or any part hereof at any time by written or telegraphic notice and an equitable adjustment satisfactory to the Purchaser will be made. b) The Purchaser shall be under no liability for failure to accept deliveries of goods mentioned here when such failure is due to Act of God, War, Civil War, fire, Earthquake, Flood, Lockouts, Transportation embargoes or any other causes which are beyond the control of the Purchaser.

Always refer our Purchase Order No. on your invoice - Working Hours: Sunday – Thursday 08:00am – 17:00pm



شركة الشرق للإنشاءات - ويفرز المحدودة - شركة محدودة المسؤولية . رأس المال ٦,٠٠٠,٠٠٠ ريال سعودي

Orient Construction Company Ltd. **WEAVERS** - PAID UP CAPITAL S.R. 6,000,000

Date: 11 February 2020

Ref: OCC/ADF-SOUTH-KHAMIS/PO-011

GOLDEN SARMAD for Trading Services
Jeddah, Saudi Arabia

Attn: Mohammed Al Qethmi
Mobile # 050 650 3632

Subject: **PURCHASE ORDER FOR HORDY BLOCKS SUPPLY**

With reference to your quotation no. SQ-190813, we hereby confirm our Purchase Order to your company for **HORDY BLOCKS SUPPLY** at our project in ADFS Khamis Mushait according to the following:

Item #	Description	Qty	Unit Price SR	Total Net Price SR
1	HORDY BLOCK - 30X20X36 / 40 CM	10,000		
Total Price Excluding VAT				

Terms and Conditions:

- ✓ Payment: Bank Transfer
- ✓ Delivery: Immediately after receipt of 50% downpayment.

Please confirm your approval of this PO by signing and return email.

With Best Regards,

ENGR. MAHMOUD SAATI
Project Manager

For



We confirm our receipt of this Purchase Order and
Attest my signature of acceptance.
FOR GOLDEN SARMAD

Signed by company authorized representative

Date:

PURCHASE ORDER

To: **GOLDEN SARMAD**
VAT No. 310168222400003
Address : JEDDAH, , Saudi Arabia
Attn : yasser
Tel. No. :
Cell No : 0544801810

Purchase Order No	SE21/01356/001			AP-SP/WHSE/MECH/L-ROT, SPARE PART FOR STIHL CHAIN SAW	
Cost Center	08211 VILLA SERVICES - TURKI BIN ABDALLAH				
Quotation Ref. #	SQ-1901455		AFCE No.		
Delivery Time	20 Days		Terms of Payment		Cash
Incoterms	LOCAL SUPPLIER		Payment Means		Bank Transfer
Origin	Saudi Arabia		Delivery Terms		By Supplier
Delivery Address	SETE WAREHOUSE KILO 14			Date	08-JUL-2021

This purchase order constitutes an offer by the Buyer (SETE) to contract with the Seller for the supply of the goods as listed herein. Following its receipt and acceptance by the Seller, this Purchase Order becomes a firm contract as defined in the Terms & Conditions of Purchase written on the back of this page.

Item No.	Description	Unit	Qty.	Unit Price	Disc. %	Disc. Unit Price	Total Excl. VAT	VAT Rate	VAT Amount	Total Amount Incl. VAT
1	FLOOR TILES, 40 X 40 X 3.3-3.5CM	SM			.00			15%		
2	TRANSPORTATION CHARGE	LOT			.00			15%		
--- LAST ITEM ---										
Important: Please note that our Purchase Order ref. number has to be mandatorily added to all documents (invoices and delivery notes) Payment Terms: 100% Advance Payment by Bank Transfer upon presentation of the invoice and PO duly signed and stamped										

Total (Excluding VAT)	Prepared By: SULTAN SHAZZAWI	Verified By:	Received & Accepted by Seller (Signature & Stamp)
Total VAT	Buyer	Reviewed and Approved By: Procurement Manager	
Total Purchase Value	JUN EJB VITALECIO	Supervisor	

REMARKS : Please return a copy of this Purchase Order duly signed and stamped in acknowledgement of your receipt and acceptance. Invoice / Delivery Notes must accompany the goods

Jadwa Construction Company

Street: Khalid Ibn Junadah, Al Malaz, Riyadh
Riyadh, Saudi Arabia
Tel: 011 291 44 55/ 66
Fax: 011 291 44 77

www.jadwacompany.com

PURCHASE ORDER

DATE 4/04/2021
PO # JC-CIV-ARCH-04-Rev01

VENDOR

Golden Sarmad

Street: Bani Malik Majid ST. Next to NCB Bank
Jeddah - Saudi Arabia.
Phone: 012 619 0369
Phone: 056 826 1455

SHIP TO

Project Vay Water Jeddah Company: Jadwa Construction co.

Street: Jeddah 3rd Industrial City Saudi Arabia.
Phone: 055 451 0163
Phone: 050 244 6610
VAT: 310074082300003

ITEM #	DESCRIPTION	QTY	UNIT PRICE	TOTAL
01	Insulated block 20*20*40 (volcanic)	21,000 Pcs		
02	Uninsulated block 10*20*40	2,875 Pcs		

SUBTOTAL

Vat 15%

SHIPPING

OTHER

TOTAL

Comments or Special Instructions

Delivery in stages as per site requirements.
Availability of material within 2 days with each order.
Note: Consider The previous PO as Cancelled
Please return back this P.O offer sign & stamp.
Thank you for your business.

Engineer

Jadwa Procurement Department

2nd Party Approval

Certified Builder



بأعتماد



SAMMAN CONSTRUCTION

C.R. 4030166491 C.C.R. 117548

شركة السمان للمقاولات

(P.O) Purchase Order / أمر شراء

RA100320191000	الرقم التسلسلي / Serial Number
10/3/2019	التاريخ / Date
سرمد الذهبية	السادة / Gentlemen
أ/ مراد 0558681444	عناية السيد / Attention
تعميد مصدات سيارات لمشروع سكن مستشفى بيش رقم الطلب (Y017-030-103 + Y017-030-148)	الموضوع / Subject

نعمدكم على عرض السعر رقم SQ-190307 للمواد الموضحة أدناه بتاريخ : 09/03/2019

رقم البند Item number	وصف البند Item Description	الكمية QTY	الوحدة Unit	السعر المتفق عليه S.R Agreed price	الصافي Net Value
1	بردورة مواقف 180*20*20 سم	34	حبة		

إجمالي الفاتورة

ضريبة القيمة المضافة 5%

الإجمالي النهائي

إجمالي وقدره : ألفان وأربعمائة وثمانية وعشرون ريال سعودي فقط لاغير

شروط التسديد / Terms of Payment	نقدي
شروط التوريد / Terms of supply	حسب المواصفات المطلوبة
شروط التسليم / Terms of delivery	بعد الدفع مباشرة
مكان التسليم / Place of delivery	جدة

يرجى تأكيد استلامكم امر الشراء والموافقة عليه
please acknowledge and approve our P.O



مدير المشتريات
Purchasing Manager

منسق المشتريات
Procurement Coordinator



لمرأه هذات
مستلمة

Jed: + 966 12 287 6508

sammangroup.com

info@sammangroup.com

Jed: + 966 12 617 0076

P.O Box 132934 Jeddah 21382





PURCHASE ORDER

DATE	11/06/2019
P.O. #	2172/2019
Your Ref	GS/SMN/01

Golden Sarmad

Mr Murad Yassin
Sales Dept.

Kindly supply the following Material :

SL	DESCRIPTION	Unit	Qty	Unit Price (SR)	TOTAL
01	Cable Tile Red 20 x 40 x 5 cm	Pcs	6000	1.55	9,300.00
02	Transportation Fee (Truck to Duba)	Trips	2	900	1,800.00
VAT					555.00
Total Value (SR)					11,655.00

Payment : to be discussed

Contact person : Mr. Orlando Maxion, mob : 059 936 2959

Mr. Tahseen Khan 059 968 6955

Signature

Procurement Dept.



*Material is available
2 days after payment*

شهادة سابقة أعمال

تشهد مؤسسة الرواسي المتطورة للمقاولات بأن سرمد الذهبية للخدمات التجارية قامت بتنفيذ مشروع أرصفة قصر الشيخ ابراهيم بن عبدالله الدغيثر الواقع بمدينة جدة حي السلامة وكانت الاعمال الموكلة لهم تشمل أعمال توريد وتركيب الاترلوك وبردورة الرصيف شاملة جميع مواد التركيب وفق المواصفات المطلوبة والمتفق عليها بالعقد. وقامت سرمد الذهبية بالتوريد والتنفيذ طبقاً للشروط والمواصفات المطلوبة على الوجه الاكمل وفي المواعيد المحددة , وكانت مثلاً للتعاون لإنجاز الاعمال في أفضل صورة .

وهذه شهادة منا بذلك ...

المدير التنفيذي

أسامة بن سالم الحربي



حررت بتاريخ 2021/07/19 م



GOLDEN
SARMAD

المواصفات الفنية



INTERLOCK DATA SHEET

COMPRESSIV STRENGTH:

SPECIFICATION	ASTM C936
TEST METHOD	ASTM C140
COMPRESSIV STRENGTH RESULT	(57.5 - 71.7) Mpa

ASTM C936 : Samples shall be not less than 55Mpa with no individual unit less than 50Mpa.

ABRASION :

SPECIFICATION	SASO 1246
ABRASION RESULT	(1.9 - 2.8)mm

SASO1246 : SPECIFICATION LIMIT ind.Max.3.6mm/ Ave.Max.3mm

ABSORPTION:

SPECIFICATION	ASTM C-936-13
TEST METHOD	ASTM C-140-16
ABSORPTION RESULT	(3.6-4.9) %

ASTM C-936-13 : SPECIFICATION LIMIT 5% Max.

HEIGHT TOLERANCE P (Dimantion) :

(+/-3mm)





BLOCK DATA SHEET

TECHNICAL DATA :20 cm

Description	Rough Average	Fair Face Average	ASTM limit
Compressive Strength over Net Area, N/mm2.(psi)	15.16	20.13	13.10
Absorption, kg./m3	126.14	125.75	208(max.)
Density, kg/m3	2.150	2.166	2000 (mm.)
Approximate Dry Weight ,kg.	16.7	17.1	-
Equivalent Thickness , mm.	105.1	109.01	101.60
Approximate Fire Rating, hr. per NCMA	2 hrs	2 hrs	-





CURBSTONE MIX DESIGN

Date :	15/11/17	Class of Concrete :	25 N/ mm2
CURBSTONE MIX DESIGN		ASTM C140 / BS-7263 Part 1(1994)	

DESIGN PARAMETERS

	Used
Cement Content (Min.)	500 kg
Max.Size of Agg.	10 mm
W/C Ratio	0.40
Comp. Strength (Min.)	25 N/ mm2
10 mm (3/8" agg.)	2.613 Spec.Gravit
3/16" agg.	2.566 Spec.Gravit
white Sand	2.604 Spec.Gravit
White / grey cement	3.150 Spec.Gravit

MAIN DESIGN PROPORTIONS

Materials	Batch Weigt Proportion
3/8" Aggregates	400 kg
3/16" Aggregates	800 kg
White Sand	1300 kg
White / Grey Cement	500 kg
Pigment (Colour)	0 kg
Water	200 liters
Total	3200

TOP MIX DESIGN PROPORTION

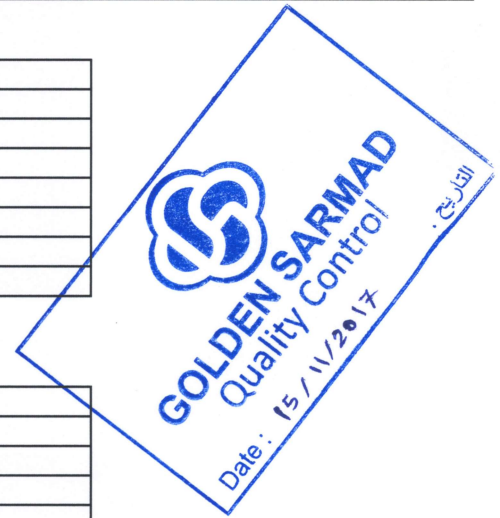
Materials	Batch Weigt Proportion
White Sand	300 kg
White / Grey Cement	100 kg
Pigment (Colour)	3 kg
Water	25 Liters
Total	428

COMPRESSIVE STRENGTH TEST

7 Days	21.8 N/mm2
28 Days	27.5 N/mm2

Reviewed by	Eng.Abdullah Dini	Report received by (Name &Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

This test was under supervision of Quality control Department





PAVING INTERLOCKS MIX DESIGN

Date :	15/11/17	Class of Concrete :	55 N/ mm2
PAVING INTERLOCKS MIX DESIGN		ASTM C140 / BS-7263 Part 1(1994)	

DESIGN PARAMETERS

	Used
Cement Content (Min.)	500 kg
Max.Size of Agg.	10 mm
W/C Ratio	0.40
Comp. Strength (Min.)	55 N/ mm2
10 mm (3/8" agg.)	2.613 Spec.Gravit
3/16" agg.	2.566 Spec.Gravit
white Sand	2.604 Spec.Gravit
White / grey cement	3.150 Spec.Gravit

MAIN DESIGN PROPORTIONS

Materials	Batch Weigt Proportion	Source of Material
3/8" Aggregates	600 kg	
3/16" Aggregates	700 kg	
White Sand	1200 kg	
White / Grey Cement	500 kg	
Pigment (Colour)	8 kg	
Water	200 liters	
Total	3208	

TOP MIX DESIGN PROPORTION

Materials	Batch Weigt Proportion	Source of Material
White Sand	300 kg	
White / Grey Cement	100 kg	
Pigment (Colour)	3 kg	
Water	30 Liters	
Total	433	

DENSITY, ABSORPTION , COMPRESSIVE STRENGTH TEST

28 Days		
Type of Test	Result	Specification
Specific Gravity g /cc	2.243	
Absorption	3.785	5% maximum
Compressive Strength	65 N/ mm2	55 N/mm2 minimum

Reviewed by	Eng.Abdullah Dini	Report received by (Name &Sign)
Supervisor	Eng. Mohammed Al-Qithmi	

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بني مالك - شارع الأمير ماجد - بجوار البنك الأهلي

مبنى إطارات نيكسن - مكتب رقم ٤٠٠

جدة - المملكة العربية السعودية

ص.ب ٨٣٤٧ جدة ٢٣٢٣٢

هاتف : ٠١٢ ٦١٩ ٠٣٦٩



BLOCK DATA SHEET

TECHNICAL DATA : 15 cm

Description	Rough Average	Fair Face Average	ASTM limit
Compressive Strength over Net Area, N/mm2.(psi)	15.16	20.13	13.10
Absorption, kg./m3	126.14	125.75	208(max.)
Density, kg/m3	2.150	2.166	2000 (mm.)
Approximate Dry Weight ,kg.	16.7	17.1	-
Equivalent Thickness , mm.	105.1	109.01	101.60
Approximate Fire Rating, hr. per NCMA	1 hrs	1 hrs	-





BLOCK DATA SHEET

TECHNICAL DATA : 10 cm

Description	Rough Average	Fair Face Average	ASTM limit
Compressive Strength over Net Area, N/mm2.(psi)	15.16	-	13.10
Absorption, kg./m3	126.14	-	208(max.)
Density, kg/m3	2.150	-	2000 (mm.)
Approximate Dry Weight ,kg.	16.7	-	-
Equivalent Thickness , mm.	105.1	-	101.60
Approximate Fire Rating, hr. per NCMA	0.5 hrs	-	-





INTERLOCK DATA SHEET

COMPRESSIV STRENGTH:

SPECIFICATION	ASTM C936
TEST METHOD	ASTM C140
COMPRESSIV STRENGTH RESULT	(57.5 - 71.7) Mpa

ASTM C936 : Samples shall be not less than 55Mpa with no individual unit less than 50Mpa.

ABRASION :

SPECIFICATION	SASO 1246
ABRASION RESULT	(1.9 - 2.8)mm

SASO1246 : SPECIFICATION LIMIT ind.Max.3.6mm/ Ave.Max.3mm

ABSORPTION:

SPECIFICATION	ASTM C-936-13
TEST METHOD	ASTM C-140-16
ABSORPTION RESULT	(3.6-4.9) %

ASTM C-936-13 : SPECIFICATION LIMIT 5% Max.

HEIGHT TOLERANCE P (Dimantion) :

(+/-3mm)





KERBESTONE DATA SHEET

COMPRESSIV STRENGTH:

SPECIFICATION	ASTM C936
TEST METHOD	ASTM C140
COMPRESSIV STRENGTH RESULT	(31.9 - 38.1) Mpa

ABSORPTION:

SPECIFICATION	ASTM C-936-13
TEST METHOD	ASTM C-140-16
ABSORPTION RESULT	(2.4 - 3) %

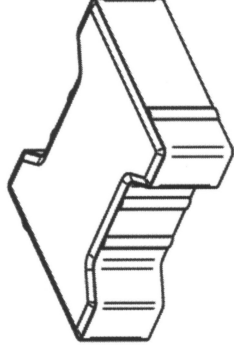
ASTM C-936-13 : SPECIFICATION LIMIT 5% Max.

HEIGHT TOLERANCE P (Dimantion) :

(+/-3mm)



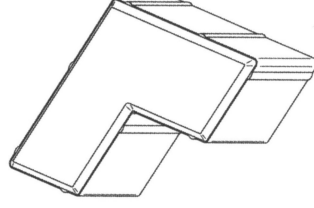
BEHATON INTERLOCK



Size: (16.5 X 19.7) cm

Thickness of Stone: (6-8) cm

ROMBA INTERLOCK



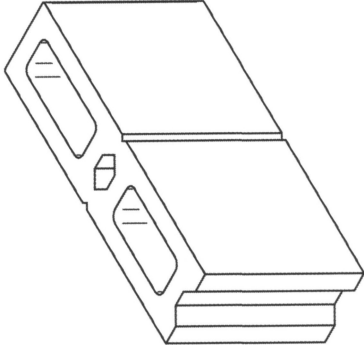
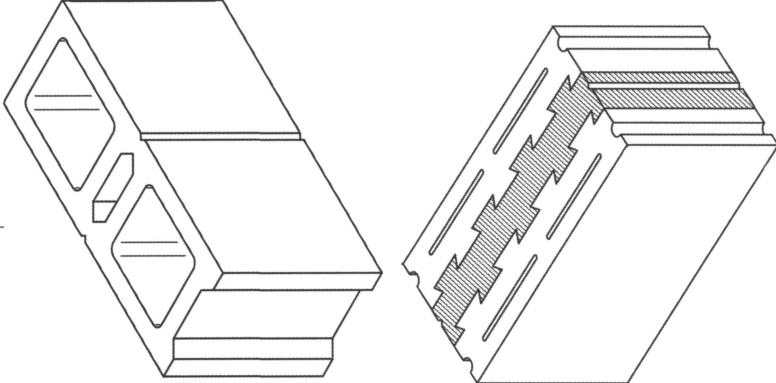
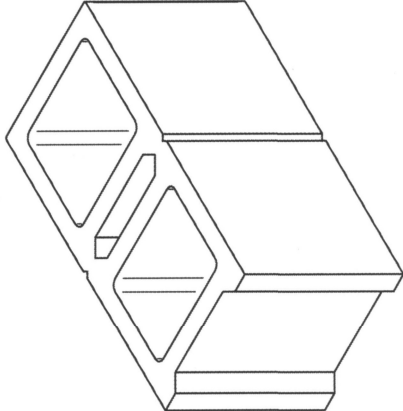
Size: (20/10 X 20/10) cm

Thickness of Stone: (6-8) cm

NOTE : All Dimensions may be increased or decreased by ($\pm$ 0.3) cm

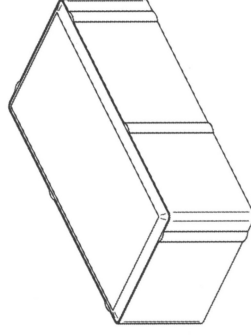
Cement Block

Size:20 X40



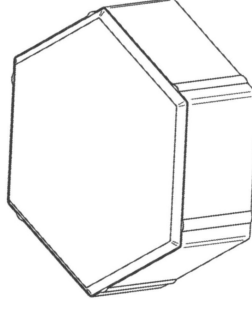
Wdith :10-15-20-25-30
NO. Hole : 2 Hole - 3 Hole
Groove: With Groove , Without Groove
Hole Side: Solid- Closed Bottom -Open Bottom

HOLAND INTERLOCK



Size: (10 X 20) cm
Thickness of Stone: (6-8-10) cm

HEXAGONAL INTERLOCK



Size: (19.7 X 22.6) cm
Thickness of Stone: (6-8) cm

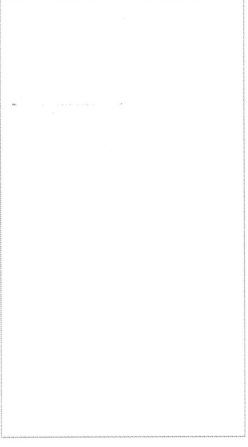
NOTE : All Dimensions may be increased or decreased by ($\pm$ 0.3) cm

CABLE COVER TILES



Size:(20X 40)cm

Thickness of Stone:(8)cm



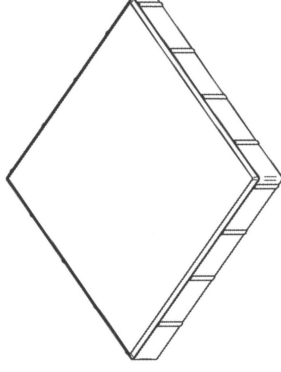
Size:(20X 40)cm

Thickness of Stone: (5-6.5-8) cm

Size:(20X 50)cm

Thickness of Stone: (8) cm

CEMENT TILES

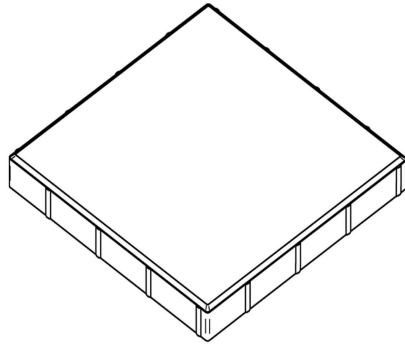


Size:(40 X 40) cm

Thickness of Stone:(4 - 4.5)cm

NOTE : All Dimensions may be increased or decreased by ($\pm$ 0.3) cm

CEMENT TILES



Size: (60 X 60) cm

Thickness of Stone: 6 cm

NOTE : All Dimensions may be increased or decreased by ($\pm$ 0.3) cm